#### THE

# Allahabad University

# MATRICULATION EXAMINATION PAPERS

IN.

English, Mathematics, Rersian, Santesit, Protect History,

Geography, Elementary Santesit, Protect History,

Drawing and Lical Economy

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# ALLAHABAD UNIVERSITY.

## MATRICULATION EXAMINATION PAPERS.

## 1908.

## ENGLISH.—FIRST PAPER.

#### Prose.

(Write the answers to the different sections in separate answer books.)

## Section A.

- 1. In the following passages, explain the portions in italies:—
- (a) "As a landsman," says Colonel Fisher, who was on board the "Plover" gun-boat in the hottest fire on the Peiho river, "I was much struck with the coolness with which the "navigation of the vessel was attended to; the man in the "chains cries the soundings, the master gives his orders "to the man at the helm and the engineers below; the "helmsman has no eyes or cars, but for the master's directions and signals."
- (b) The first wars that the Romans engaged in beyond the bounds of Italy were with the Carthaginians. This race came from Tyre and Zidon; and were descended from some of the Phænicians, or Zidonians, who were such dangerous foes or more dangerous friends to the Israelites. Carthage had, as some say, been first founded by some of the Cananites who fled when Joshua conquered the Promised Land; and whether this were so or not, the inhabitants were in all their ways the same as the Tyrians and Zidonians, of whom so much is said in the prophecies of Isaiah and Ezekiel.
- (c) He had likewise seen some service against the Spaniards, and after his return had been made a Captain in the Lifeguards and a Gentleman of the Bedchamber. Vandyke

has left portraits of the father and the son; the one a bald-headed, alert, preciselooking old warrior, with the cuiruss and gauntlets of elder warfare; the other the very model of a cavalier, tall, easy, and graceful, with a gentle, reflecting face, and wearing the long lovelocks and deep point lace collar and cuffs characteristic of Queen Heniretta's Court.

- 2. Rewrite passage (a) above, changing the direct form of speech into the indirect form.
- 3. Give in your own words—not exceeding 3 (three) pages of your answer book—the story of either of the following "Golden deeds":—

The Keys of Calais.
The Carnival of Perth.

#### B.

4. The priests and many of the Senate held the rash young men had deserved death, as covenant-breakers; but their father made strong interest for them and prevailed, not only to have them spared, but even chosen tribunes to lead the legions in the war that was expected.

What is the object of the verb held? Parse as, covenant-breakers, and chosen. What were legions and tribunes? Explain made strong interest.

- 5. Give the meaning of the following extracts in your own words:
  - (a) A sinful heart makes failing hand.
- (b) The battle on the banks of the river Allia was not so much a fight as a rout.
- (c) It is with iron, not gold, that Romans guard their country.
- ... (d) There shall not be a spot in my realm where the key shall not keep the castle, and the bracken bush the cow, though I lead the life of a dog to accomplish it.
- 6. Rewrite in your own words the story of Damon and Pythias.

अध्यक्षित्र 🛴 🕻 🕻

7. What is meant by alliteration, metaphor, and antithesis? Give one example of each occurring in the following passage, and explain the phrases in italics:—

They were now turning to the eastward, and had reached the range of steep and barren hills, which binds in that quarter of the naked plain, and varies the surface of the country, without changing its sterile character. Sharp rocky eminences began to arise around them, and in a short time, deep declivities and ascents, both formidable in height and difficult from the narrowness of the path, offered to the travellers obstacles of a different kind from those with which they had recently contended. Dark caverus and chasms among the rocks, those grottoes so often alluded to in Scripture, yawned fearfully on either side as they proceeded, and the Scottish knight was informed by the Emir that these were often the refuge of beasts of prey, or of men still more ferocious, who driven to desperation by the constant war, and the oppression exercised by the soldiery, as well of the Cross as of the Crescent, had become robbers and spared neither rank nor religion; neither sex nor age, in their depredations.

8. (a) Explain the Grammar of the portions printed in italics of the following passage:—

Nothing commends a young man so much to his employers as accuracy and punctuality in the conduct of business. And no wonder. On each man's exactitude in doing his special best depends the comfortable and easy going of the whole machine. In the complicated tasks of social life no genius and no talent can compensate for lack of obedience. If the clock goes fitfully, nobody knows the time of day; and if your allotted task is a necessary link in the chain of another man's work, you are his clock, and he ought to be able to rely on you. The greatest praise that can be given to the member of any association is in these terms:—This is a man who always does what is required of him and who always appears at the hour when he is expected to appear.

(b) Analyse in tabular, form the last sentence beginning with the words. The greatest, &c. 700 (100) (100)

## ENGLISH.—SECOND PAPER.

#### Poetry.

#### D.

- 1. Explain clearly in your own words the following passages:-
  - (a) "Oh! would, strange bird, I too could sweep Unharmed along life's angry deep,

    Nor heed the lowering clouds that roll

    And darken round the struggling soul—

    Like thee could soar, and breast, elate

    The mists of doubt, the storms of fate."

Parse fully the words underlined in the above passage.

(b) "To trust to the world is to build on the sand:—
I'll trust but in Heaven, and my good Right Hand."

What lesson is to be derived from these two lines?

- (c) "We know when moons shall wane
  We summer birds from far shall cross the sea,
  When autumn's huc shall tinge the golden grain—
  But who shall teach us when to look for thee?"
- 2. Give the meanings of the following expressions; also state clearly but briefly the connections in which they are used:—
  - "Blessed barrier between day and day"
  - "The angel of Death."
  - "Seargill's whispering trees."
  - "Messenger of Spring."

#### Ε.

- 3. Give in your own words the substance of the poem "A Legend"; point out what lesson the poet intends to teach from it. Your answer must not exceed 2 pages.
- 4. Explain clearly and concisely the phrases underlined in the following extracts:—
  - (a) "One sleeps where southern vines are dressed Above the noble slain"
  - (b) "A poet could not but be gay
    In such a jocund company."
  - (c) "There is a power whose care Teaches thy way along that pathless coast."

- (d) "The frame thy wayward looks deride Required a God to form."
- (e) "His steeds to water at those springs On chaliced flowers that lies."

#### F.

5. All thoughts of ill; all evil deeds,

That have their roots in Thoughts of ill;

Whatever hinders or impedes

The action of the nobler will:—

All these must first be trampled down

Beneath our feet, if we would gain

In the bright field of fair renown

The right of eminent domain.

We have not wings, we cannot soar;

But we have feet to scale and climb By slow degrees, by more and more, The cloudy summits of our time.

State, in your own words, the plain meaning of the above passage. Explain the grammatical construction of the words and phrases in italics.

6. Amongst the many advantages of experience, one of the most valuable is that we come to know the range of our own powers, and if we are wise we keep contentedly within them. This relieves us from the malady of eagerness: we know pretty accurately beforehand what our work will be when it is done, and therefore we are not in a hurry to see it accomplished. The coolness of old hands in all departments of labour is due in part to the cooling of the temperament by age; but it is due even more to the fulness of acquired experience, for we do not find middle-aged men so cool in situations where they feel themselves incompetent.

State, as briefly as possible, the plain meaning of the above passage. Analyse the first sentence.

#### URDU.—THIRD PAPER.

(N.B.—Write the answers to the different sections in separate answer books.)

G

1. Translate into English:

ایک عورت کا اِکلوتا از کا جیوں هي چلنے پهرنے اگا

کہ یکایک مرگیا۔ وہ اپنے سُردے بھیے کو پیار کے مارے اپنی چھاتی میں لگاکر گھر گھر پھرنے المی اور اوسکے لیئے دوا مانگتی پھرتی۔ ایک فقیر نے اُسکو دیکھہ کر سہجھہ لیا کہ یہہ عُورت ناسمجهم هے ۔ اُسنے اوس عورت سے کہا "اے میری بنتی میرے پاس تو اُسکی کوئی ایسی دوا نہیں ہے جسے تم مانگری ہو پر ہاں میں جانتا ہوں کہ میرے مرشد کے پاس اُسکی دوا ھے۔ وہ عورت مرشد کے پاس گئی اور کہنے لگی که حضرت آپکو کوئی ایسی دوا معلوم ہے جو میرے بھے کو فائدہ کرنے ۔ مرشد نے جواب دیا کہ تهورًا سا سرسوں لاؤ مگر ایسے گهر سے مانگ لاؤ جہاں کبھی كُسِيكًا بيتًا بيتِّي مَان بَاپ بهائي بهن شوهر اور جورو يا خادم اور خادمه نه سرے هوں ـ ولا عورت اپنے سُردے بھے كو ليكر چّاي اور سرسون مانگتي پُهري بـ لوگون نے كها "الو سرسوں لو" ۔ پر جب عورت نے پوچھا کہ آپ کے گھر کبھی بيتًا بيتي مان بأب بهائي بها تأي بهن شوهر جورو يا خادم خادمة مرے هیں یا نہیں تو اونھوں نے جواب دیا که "اے بھلی مانس يهه كيا بات كهتي هو" - زندون كي گنتي كم هے اور مردوں کی گنتی بہت تھے ۔ کسینے کہا کہ میرا بیڈا مرکیا ہے دوسرا آبولا میرا باپ تیسرے نے کہا میرا نوکر گزر گیا هے ۔ آخر کار جب اُسکو ایک بھی گھر ایسا نہلا جہاں کوئی نه کوئی نه مرا هو تب اوسکو شهجهه آئی اور اپنے مردتے بھے کو جنگل میں پھینک کر مرشد صاحب کے پاس اوت آئي ۔ تب مرشد جي نے اوسے سهجهایا که یہه دنیا گزر جانیوالي هے اور سب کچهه نیست هو جائیگا ۔ عورت کو هوش آگيا اور وه اوس مرشد کي مريد هو گڏي \* 💛 H.

بادشاهو کو کبھی کبھی اپنا پہچنوانا مشکل هوتا هے ۔ تھور دنوں کی بات هے که یورپ کے ایک بادشاہ کی تختنشینی کے جلسہ میں ایک بم کے گوائے کے پھت جانے سے بہت آدمی اپنی جانوں سے گئے اور بہت سے زخمی هوئے ۔ ایک دن بادشاہ اوس اسپتال میں گئے جہاں زخمی لوگ علاج کے لیئے بھیجے گئے تھے ۔ ایک زخمی بورهی عورت کے سرهانے جاکر بادشاہ نے پوچھا که تو اوس جگہه کیوں گئی تھی ۔ بوس عورت نے روکھے پن سے جواب دیا کہ میں بادشاہ کو دیکھنے گئی تھی ۔ پادشاہ نے کہا پھر کو اوس بادشاہ کو دیکھنے گئی تھی ۔ پادشاہ نے کہا پھر فو اوس بادشاہ کو دیکھنے گئی تھی ۔ پادشاہ نے کہا پھر میں دادشاہ ہوں ۔ عورت نے غصہ کی نظر سے دیکھکر کہا کہ بادشاہ ہوں جھوتھہ بکتا هے ۔ میری اِتنی عمر آئی کیا شجھے یہہ معلوم نہیں کہ بادشاہ تیرے ایسے نہیں هوتے ﴿

## HINDI.

(N.B.—Write the answers to the different section in separate answer books.)

G.

Translate into English:-

एक श्रीरत का एकलीता लड़का ज्यों ही चलने फिरने लगा कि एका एक मर गया। वह मारे प्यार के अपने सुदें बच्चे को छाती में लगाकर घर घर फिरने लगी और उनके लिये दवा मांगती फिरी। एक साधू ने उसको देखकर समक्त लिया कि यह श्रीरत नासमक है। उसने उस श्रीरत से कहा बच्चों मेरे पास तो इसकी कोई दवा नहीं है जो तुम मांगती हो। पर हां में जानता हूं कि मेरे गुरू जी के पास इसकी दवा है। वह श्रीरत गुरू जी के पास गई श्रीर

कहने लगी स्वामी जी आप को कोई ऐमी दवा मालुम हैं जो मेरे बच्चे को हित करें। गुरू जी ने जवाब दिया कि योड़ा सा सरसीं लाख्री पर ऐसे घर से मांग लाख्री जहां कभी किसी का बेटा बेटी, मां बाप, भाई बहिन, स्वामी स्त्री, चाकर चकरानी न मरे हों। वह श्रीरत श्रपने मुर्दे बच्चे को लेकर चली और सरसीं मांगती फिरी। लोगों ने कहा लेख्रो-सरसों लेख्रो। पर लब ख्रीरत ने पूछा कि ख्राप के घर कभी बेटा बेटी, मां बाप, भाई बहिन, स्वामी स्त्री या चाकर चकरानी मरे हैं या नहीं, तो उन्हों ने जवाब दिया कि श्ररी भली मानुष यह क्या वात कहती है। ज़िन्दों की गिनती कम है और मुदाँ की गिनती बहुत है। किसी ने कहा मेरा बेटा नर गया। दूसरा बोला मेरा वाप नर गया। तीसरे ने कहा मेरा नौकर गुज़र गया है। निदान जब उसको एक भी घर ऐसा न मिला जहां कोई न कोई न मरा हो तब उसको बोध हुआ और अपने मुर्दे बच्चे को जंगल में फेंक कर गुरू जी के पास लौट प्राई। तब गुरू जी ने उसे समभाया कि यह संसार प्रनित्य है फ्रीर सब कुछ नश्चर है। प्रौरत को ज्ञान भया प्रीर वह उस गुरू जी की चेलिन हो गई ॥

H.

बादशाहों को कभी कभी अपना पहचनवाना कठिन होता है। थोड़े दिनों की बात है कि यूरोप में एक वाद-शाह के तख़ पर बैठने के उमय जो जलसा हुआ उसमें एक बम के गोले के फट जाने से बहुत आदमी अपनी जानों से गयें और बहुत से ज़ख़नी हुए। एक दिन बादशाह उस हरपताल में गये जहां ज़ख़नी लोग इलाज के लिये भेजे गये

थे। एक ज़ख्मी बूढ़ी श्रीरत के सिरहाने जाकर बादशाह ने पूछा कि तू उस जगह क्यों गई थी। उस औरत ने हखेपन से जवाब दिया कि भें बादशाह की देखने गई थी। बाद-शाह ने कहा फिर तू उस बादशाह की जी भर देख ले में ही तो बाद्गाह हूं। औरत ने क्लोध दूष्टि से देखकर कहा कि मरदुए क्यों मूठ बकता है सेरी इतनी उस्त आई क्या सुकी यह मालूम नहीं कि बादशाह तेरे ऐसे नहीं होते ॥

## ENGLISH COMPOSITION.

Write an essay on "Holidays and how to use them," taking care to show clearly what part in your opinion reading should play during a long vacation. Mention also any six books known to you which you consider good holiday reading.

## MATHEMATICS.—FIRST PAPER.

## Arithmetic and Algebra.

- Find the sum of the 21 odd numbers which follow 1. 15432.
  - Reduce. . 2.

7.

Solve.

$$\frac{1}{2} + \frac{2}{3} + \frac{3}{4} + \frac{4}{5} - \frac{13}{6} - \frac{1}{20}$$

to a fraction in its lowest terms.

- 3. Find all the prime numbers less than a hundred.
  - 4. Simplify  $(a+b+c)^2-2(b+c)(a+b+c)+(b+c)^2$ .
  - 5. Find the G. C. M. of
  - $8x^3 + 38x^2 + 59x + 30$ , and  $6x^3 13x^2 13x + 30$ .
  - 6. Solve the equation  $13x^2 - 90x - 7 = 0$ .

$$x+y=5 
 x+3y=13.$$

8. If  $\frac{a}{b}$  be a proper fraction, and x a positive number,

prove that  $\frac{a+x}{b+x}$  is greater than  $\frac{a}{b}$ .

- 9. Break into factors  $x^2-2x-15$ .
- 10. Trace the graph of y=2x+1.

## MATHEMATICS.—SECOND PAPER.

## Geometry.

PART I-PRACTICAL GEOMETRY.

(Proofs of constructions are not to be given but construction lines must be shown in all cases.)

1. Draw a quadrilateral ABCD from the following data:—

AB=1.5 in., BC=CD=2.1 in., DA=2.5 in., BD=2.6 in.

Reduce the quadrilateral to an equivalent triangle and find its approximate area by measuring the base and altitude of the triangle.

- 2. Make a rectangle of area 3 sq. in. and construct an equivalent square. Measure a side of your square to the nearest hundredth of an inch and write down the result.
- 3. Draw two straight lines inclined to one another at an angle of 41° using your protractor and then describe a circle of radius 0.9 in. to touch them.
- 4. Describe two circles of radii 1.2. in. and 0.8 in. respectively, and having their centres 1.6 in. apart. Draw a common tangent, and measure its length to the nearest hundredth of an inch between the points of contact.
- 5. Find by geometrical construction a straight line of length  $\frac{1\cdot 1\times 2\cdot 0}{1\cdot 7}$  in. Measure the line that you have found to

the nearest hundredth of an inch, and write down the result,

## PART II—THEORETICAL GEOMETRY.

6. If two right-angled triangles have their hypotenuses equal, and one side of the one equal to one side of the other, prove that the triangles are congruent.

DE, DF are drawn perpendicular to the sides AC, AB of a triangle ABC, from the middle point of the base BC. If DE = DF, prove that AB = AC.

7. If a pair of opposite angles of a quadrilateral are supplementary, prove that its vertices are concyclic.

The internal bisectors of the angles of a quadrilateral form a quadrilateral whose vertices are concyclic. Prove this.

8. Illustrate and explain by a diagram the geometrical proposition corresponding to the algebrical formula:—  $a^2-b^2=(a+b) \quad (a-b).$ 

ABCD is a straight line. If AB=BC and AC=CD, prove that the rectangle contained by AD and DC is equal in area to eight times the square on AB.

9. If two chords of a circle intersect inside the circle, prove that the rectangle contained by the parts of the one is equal to the rectangle contained by the parts of the other.

A perfectly round ball is cut straight through into two unequal parts, and the smaller part is made to stand upon its flat face. If its height is now found to be 0.8 in. and the diameter of its base 5.6 in., find the radius of the ball.

10. If two triangles have one angle of the one equal to one angle of the other, and the sides about these equal angles proportional, prove that the triangles are similar.

Two sides of a triangular field measure 370 yards and 285 yards respectively, and the angle between them is 64°. Make a drawing of the field to scale 1 in.=100 yds., and find approximately the area of the field in square yards, by mea-

## HISTORY.

surement from your plan and calculation.

(Answers to Parts I and II to be written in separate Answer Books marked I and II respectively.)

#### PART I.

- 1. Write short notes on four only of the following:—Domesday Book, Simon de Montfort, the Feudal System, the Suppression of the Monasteries, the Petition of Right, The Treaty of Utrecht, the Rising of 1745.
- 2. Describe the events which led up to the signing of Magna Charta and mention its most important provisions.
- 3. Describe how the English lost their hold of France after the death of Henry V.
- 4. What were the immediate causes of the War that ended in the loss to England of her North American Colonies?
- 5. Either state what you know about the movement started by John Wesley and its results.

or.

Explain what need there was for the Reform Bill of 1832. Describe the agitation which it provoked.

#### PART II.

- 6. Give a brief account with dates of the Invasion of the Punjab by Alexander the Great.
- 7. Mention with dates the chief events in the lives of three only of the following:—

Asoka, Muhammad Ghori, Sivaji, Warren Hastings, Dost Muhammad.

- 8. Sketch the character of Aurungzeb and compare it with that of Akbar.
- 9. Describe briefly the struggle between the French and English in Southern India.
- 10. What administrative acts and works of public utility mark the Governor-Generalship of Lord Dalhousie?

#### ARABIC.—First Paper.

Text-book and Grammar.

- (N.B.—Give vowd-points to every Arabic word you write in your answers.)
- 1. Translate into English:-قلما قرأ نعمة هذا الشعر هملت عيناه بالدموع فقالت

له القهر مانة ما الذي يبكيك يا ولدي ـ لا ابكى الله لك عينا \_ فقال العجبي يا ستي كيف لا يبكي ولدي وهذه

جاريته و هو شيدها نعية أبن الربيع الكوفي \_ وعافية هذه الجارية مرهونة برؤيته \_ و ليس بها علة الاهواه \_

فخذي يا ستي هذه الالف دينارا لك عندي اكثر من ذلك \_ و انظري لنا بعين الرحمة \_ و لا نعرف اصلاح هذا الاسر الا

منك \_ فقالت العجوز لنعية هل انت مولاها \_ فقال نعم \_ قالت صدقت ـ فافها لا تفتر عن فكرك ـ فاخبرها بعهة بها قد جرى له س الاول الى الاخر \*

2. (a) What is the word \_\_\_\_ corruption of? Give its literal meaning.

- شعر - شعر - شعر - معرف ) of:--- of (جمع - کسر) عين (a stream) عين (an eye – جارية - دينار – عين (a stream) عين

. عيناه in نرن تثنيه in عيناه

3. Translate into English, explaining allusions, if any :-

سَمِع اعرابي قاردًا يقرأ - الاعراب اشِد كفرا و نفاقا \_

فقال لقد هجاناً \_ ثم سهعه بعد ذاك يقرأ \_ و من الاعراب من يومن بالله و اليوم الاخر' فقال لا باس مد هجا و مدح -هذا كها قال الشاعر \*

\* شعو \* هجوت زهيرا ثم اني مدحته

وما زالت الاشرات تهجئ و تهدح Translate into English:-

لا تكن للعيش مجروح الفواد (a) انها المرزق على الله الكريام 3

كن غنى القلب واقنح بالقليل

- مت و  $\overline{\mathbb{V}}$  تطلب معيشا من لئيم رضينا قسمة الجبار فينا (b)لنا عملم و لماجهال مال فان المال يَفني عن قريب و أن المسال عبساق لا يسوال
- الم تر ان الدهر يوم و ليلة (c) يكران من سبت . جديد الى سبت فقل لجديد الثوب لابد س بلي وقل لاجتهاع الشهل لابد من شت
- (d) نهب الشبآب فهاله من عودdو اتم الهشيب فاين منه الهمرب و الروح فیک ودیمة اودعتّها ستردها بالرغم منك و تسلب و غرور دنیاک الذی تسعی بها دار حقيقتها ستآع يهدب و اليل فاعلم و الهار كلاهما أنفساسنا فيها تسعد و تحسب و جميع ما خلفته و جمعته حقا يقينا بعد مونك ينهب و أر الكذوب فلا يكن لك صاحبا أن الكدوب يشين خلا يصحب
- (a) Give the governments of the following, with examples:-متهر - صار - ليت - حاشا
- (b) Give باب, and sof the following, explaining the تعليل, if any :---.

تُمَدُّ and أُوَى عَتَ \_ قُلْ \_ أَمْ قَرَ .

## ARABIC.—SECOND PAPER.

Translation from Arabic into English.

1. Translate the following into English:

Δ

نقل ان الرشيد كانت عنده جارية \_ يعبها معبة شديدة \_ و كانت سوداء و اسبها خالصة \_ جالسة عنده \_

وعليها من الجواهر و الدور ماشاء الله تعالى ـ و كان الأ

يفارقها ليلا و لا نهار \_ فدخل عليه ابونواس و مدهه بابيات بليخة \_ فلم يلتفت اليه \_ و بقي مشغولاً بالجارية \_ فحصل

لابي نواس غبن في نفسه ـ فخرج و كتب على باب

القد ضاع شعري على بابكم،

کہا ضاع عقد علیٰ خالصہ ۔ فقراً ہمف حاشیہ الہلک ۔ ثم دخل و اخبرہ بدلک ۔

فقال على بابي نواس - فلها دخل عليه من الباب محا تجويف العين من الهوضعين من الفظ ضاع و ابقي اولهها علي صورة الههزة ـ ثم اقبل علي الهلك ـ فقال له ما

لقد ضاء شعري على بابكم

كتبت على الباب ? قال كتبت: ـــ

كها ضاء عقد على خالصه فاعجب الرشيد ذلك و اجازه بالف درهم \*

B.

حكاية عن القاضي يحيي بن اكثم قال بت ليلة عند المامون - فعطشت في جوف الليل - فقهت الأشرب ماءاً -

فراني المهامون \_ فقال - مالك يا يصيا فلت - يا الميرالمومنين انا والله عطشان - قال ارجع الي موضعك - فقام والله الي معلى المهاء فجاءني بكوز ماء - وقام علي

رأسي - فقال اشرب يا يحيي - فقات - يا اليرالهومنين هلا وصيف او وصيفة - قال انهم نيام - قلت كنت انا اقوم للشرب - فقال لي لذم بالرجل الذي يستحدم ضيفه - ثم قال - يحيي فقلت - لبيك يا اليرالهومنين - قال الا أحد ثك - قلت بلي يا اليرالهومنين - قال حدثني الرشيد - قال حدثني الههدي - قال حدثني البيد عن قال حدثني البهدي - قال حدثني البيد عن عكرمة عن ابن عباس رضي الله عنه قال قال رسول الله صلى الله عليه و سلم - سيد القوم خادمهم «

C

(1) قيل ان عليا رضي الله عنه خطب ذات يوم - فقال في خطبته عبادالله - الموت! الموت! وليس منه فوت - ال اقمتم اخذكم و ان فررتم عنه ادرككم «

(2) حكاية عن بعض الادباء \_ قال - حضر رسول ملك الروم عند المتوكل فاجتمعت به فقال - لما آحضوالشراب مالكم معاشر المسلمين! قد حرم عليكم في كتابكم المخمر ولحم الخنزير «

(٤) قيل لها هرب موسي بن عهران عليه السلام من فرعون و بلغ ارض مدين اخذته الحهي وقد اصابه الجوع بعد ذلك فشكي الني ربه وقال يا رب انا الغريب و انا الهويض و انا الفقير و فقال الله تعالي و اما تعرف من الغريب و من الهريض و من الفقير و قال و لا و قال الغريب الني ليس له مثلي ليس له مثلي طبيب و الفقير الذي ليس له مثلي طبيب و الهويض الذي ليس له مثلي طبيب و الهويض الذي ليس له مثلي طبيب و الهوين المنه مثلي وكيل \*

## THIRD PAPER.

## Translation from English Into Arabic.

- Translate the following into Arabic with vowel marks very carefully set :-- '>
  - (1) God is very great. We worship Him. He created us. He gave us eyes to see; and gave us ears to hear.

(2) I travelled from Basrah to Kufah.

(3) He slept the whole night.

(4) God will pardon your sins.

- (5) Wash your hands and your faces.
- (6) I did not see him since Friday.
- (7) By God, I will never drink wine.
- (8) By God, I will certainly beat Zaid.
- (9) Neither Zaid is in the house nor Umar.
- (10) Certainly Bakar is standing.
- (11) Mahmud is absent but Mohammad is present.
- (12) Our king is just.
- (13) The tribe came to me, except Zaid.
- (14) You will certainly not see me. (15) If you beat, I will beat. (16) The poor man became rich.

- (17) I found Ahmad in the market-place.
- (18) Hamid came in my house.
- (19) He reads Arabic language in the school.
- (20) Time of examination is near.
- (21) I do not worship whom you worship.
- (22) We worship Allah.
- (23) Is there any man in thy house?
- (24) Joseph (یوسف) came to me.
- (25) Noah (زرح) called his Lord.
- (26) Abraham (ابراهیم) was father of Ismaeel (اسماعیل).
- (27) They go to Mecca for pilgrimage.
- (28) All praise is due to God, the Lord of the whole world.
- (29) A ruler without justice is like a river without water.
- (30) She gave her one thousand dinars.
- (31) Saifuddoulah (سيف الدرك ) died in Halab in the month of Safar. He was brave, generous, and a poet.

# PERSIAN WITH ARABIC.

# SECOND PAPER.

Text-book and Grammar. 1. Translate the following into English: (1) سالے از باہم با شامیانم سفر بون و راہ از حرامیان ير خطر - جوانے ببدرقه هجرالا ما شد سر باز چرخ انداز سلعشور بیش زور که ۲۰ سرن توانا کهان او را زم نکردند. سلعشور بیش زور که ۲۰ و زور آوران روے زمین پشت او را بو زمین نیاوردندے -اما چنانکه دانی متنعم بود و سایه پرورده نه جهاندیده و سفر کرده رعد کوس دلاوران بگوشش نرسیده و برق (2) كبوتر را گفتند - چون است كه از دو بچه بيش شهشير سواران نديده \* نیاری و چون سرغ خانگی بر بیشتر ازان قدرت نداری « يري ريرر غدا از حوصلهٔ سادر و پدر سيخورد و گفت بهه کبوتر غدا از حوصلهٔ جوز سرع خانگی از سزبله بر هر راهگذر - از یک حوصله غَذَاًی دو بچه بیش نتوان داد و آز نیم سزبله در روزے هزار چوز<sup>ی</sup> در روزي توان کشاد \* (3) و میفرماید خورد بین بزرگ زیان است سردمان بے سایہ را زندہ نه شهرید - اگر خواهی که بیرنج توانگر باشی پسند کار باش - هم او فرساید سرگ بهتر از نیاز باشی پسند کار باش - هم او بَه هَدِسُوان خویش - و بگرسنگی سردن به که بنا فروسائگان سیر شدن ۔ هر اندیشه که بدو رسد بر سست پیهانان استوار مباش و بر استواران سستي سنها \*

(4) و او تهانجات بخویشان و اقرباے سردار خوار سپرده مستغیثان بعدائت داروغهٔ مذکور بعدالت آن فرزند بار نبي يابند و جعد مال سردم خوار اوباش رفيق داسادس شدم خلق الله را ایدا سیدهند حیرانم که دو

وقت حزاے اعمال چه جواب خواهید داد - حق سبھائه و تعالیٰ عادل است ـ اگر ظالم را کار فرما کنیم هر عدایے که از ظالم سامور ما برما آید عدل است و بان سزاواریم \*

- 2. Give the different meanings of برآمدس and and make short sentences in Persian illustrating them.
- 3. Write some Persian endings denoting likeness, and give an example of each.
  - 4. Translate the following into English:—
    - ر مغرور دندیا ره دین مجوت (1) خدا بینی از خویشتن بین مجوی گرت جاه باید مکن چون خسان به چشم حدقارت نگه در کسان گهان کے برد مردم هوشهاند که در سر گرانی است قدر بلند که درانند خلقت پسندیده خوی نگر چون توثی بر تو کبر آورد بیزرگش نده بینی بچشم خرد بیزگش نده بینی بچشم خرد تحدد نهان شدو نیز از تکبر کنی همچانان
    - روزے کہ جزاے ہر صفت خواہد ہود (2) قدر تو بقدر معرفت خواہد ہود در در مرز جزا در حسن صفت خواہد ہود حشر تو بصورت صفت خواہد ہود
  - 5. Explain the following in Persian:

    رُ آتش وادي ايدي نه منه خرم و بس
    موسى اينجا باميد قيسے سي آيد

## کس ندا نست که مغزاگه معصود کجالست اینقدر هست که بانگ جرسے می آید

- 6. Analyse the last couplet according to Persian Grammar.
- 7. Give rules for forming Imperative Mood, 2nd Person, Active Voice, in Arabic. Illustrate your answer with examples.
- 8. Name half a dozen Arabic افعال ذاقس (verbs of incomplete predication), and write short sentences with vowel points illustrating the use of each.

## SECOND PAPER.

## Translation from Persian into English

1. Translate the following passages into English:—

(a) هرمز را گفتند از وزیران پدر چه خطا دیدی که

بند فرمودی ? گفت گذاهے معلوم نکردم و لیکن بیقین

دانستم که مهابت من دردل ایشان بیکرانست و بر عهد

من اعتباد کلی ندارند ترسم که از بیم گزند خویش آهنگ

هلاگ من کنند پس قول حکیا را کار بستم که گفته اند \*

\* قطعه \*

ازاں کز ثو ترسد بترس اے حکیم وگر با چنو صد بر آدی بجنگ ازاں مار بر پاے راعی زندہ کہ ترسد سرش را بکوبد بسنگ نہ بینی کہ چوں گربہ عاجز شود بسر آرد بچانگال چشم پانگ

(b) پارسا زادهٔ را نعمت بیکران از ترکهٔ عمان بدست اُفتان فسق و فجور آغاز کرن و مبدري پیشه گرفت في الجمله نماند از سائر معاصي منکریکه فکرن و مسکریکه نخورد - بارے به نصیحتش گفتم اے فرزند دخل آب روانست و خرج آسیای کردان - یعنی خرج فراواں کردن مسلم کسے را باشد که دخل معین دارد \*

\* قطعہ \*
چو دخلت نیست خرج آهستہ ترکن
کہ می گدویند ملاحدان سرودے
بکوهستان اگدر بدارا ندہ بدارہ
بسالے دجلہ گدردہ خشک رودے
پسر از لذت ناے و نوش ایں سخن در گوش نیاورہ

و بر قول سن اعتراض کرد و گفت راحت عاجل را به تشویش محنت اجل منغص کردن خلاف را ح خردمندان است فکیف مرا که صدر مروت نشسته ام و عقد فتوت بسته و فکر انعام در افواه عوام افتاده \*

\* مثانوي \*
هر که علم شد بسخاؤ گرم
بند نشاید که نهد بر درم
نام نکوئي چو بروں شد بکوے
در نتواني که ببندي بروے

(c) حکمت - جوهر اگر در خلاب افتد همان نفیس است و غبار اگر بر فلک رود همان خسیس - استعداد بے تربیت داریت داریخ ست و تربیت نامستعد ضایع - خاکستر نسبتے عالی دارد که آتش جوهر علویست و لیکن چون بنفس خود هنرے ندارد خاک برابر است - و قیمت شکر

نه ازلی ست که آن خون خاصیت و نے است \*

\* مثنوي \* چو کنعان وا طبیعت بے هنو بود پیهبر زادگی قدرش نیفزود

هنر بنها ۱۰ کر ۱۵ ري نه کنوهر کل از خارست و ابراهیم از آزر ،

2. Translate into English:-دیدم کیل تازه چند دسته (a) بر گنبدے از کیاہ بستہ

گفتهم چه بدود گیاه ناچیز تسا ذر صف گل نشیند او نیز بكريست كيالا و كفت خساموش صعبت نكسند كسرم فسرامسوش گر نیست جهال و رنگ و بویم آخُدر فده گدیدالا بداغ اویدم مسن بنسدة خضوت كسويسهم يسرورده نسعسهست قسديسهسم کسر ہے ہنرم و کسر ہسنرمند' اطف ست آمیدم از خداوند بسا آنکمه بضاعتیے ندارم سرمایلهٔ طاعبتیے نسدارم او چارهٔ کار بسنسهٔ دانسه

چـون هيـچ وسيلتش نهانـد رسم ست که سالکان تحریسر آزاد كسنسد بسنده يسير اے بیار خیداے عیالم آراے بدر سعدي پير خود ببغشاے

سعددي رّه كعبسة رضا كيسر اے مسود خدا رہ خدا کیو بده بخت کسے کہ سر، بتاہد

زین در که در دگیر بسیابید

نعوره شیرندیم خدوره هسک (b) گدر بسختی بهیری اندر غدار تن به بیهدارگی و گدرسنگی بنه و دست پیش سفله مدار گر فریدون شود بنعهت و ملک یه هنر را بهیچ کس مشهدار پدرندیان و نسیج برندا اهل پدرود و طلاست بدر دیوار

از صعبت دوستی برنجیم (c) کاخیلاق بیدم حسن نیمیایی عیبیم هنی و کیمال بییند خیارم گل و یاسمن نیمایید کو دشمن شوخ و چشم بیباک تا عیب سرا بمین نیمایید

دست برهم زند طبیب ظریف (d) چوں خوت بیند اوفقادہ حریف خواجه در بند نقش ایوانست حانه از پاے بست ویرانست پسیر مردے بنزع می نالید پسیر زن صندلش همی مالید چسوں مخبط شد اعتدال مزاج نه عزیمت اثر کند نه علاج

کلے خوشبوے در حدام روزے (e) رسید از دست محبوبے بدستم بدو گفتم که مشکی یا عبیری که از بوے دلاویز تو مستم

بگفتا من گلے ناچییز بدودم و لیکن مدیتے باگل نشستم جہال هہنشیں در من اثر کرد وگرنه من هہاں خاکم که هستم

#### THIRD PAPER.

Translation from English into Persian.

- 1. Translate the following passages into Persian:—
- (a) Once at Carthage there was a slave named Androcles who was so badly treated by his master that he resolved to run away from him. He therefore secretly left his master's house, and hid himself in a forest some miles distant from the city. After wandering about for some time, he came to a large cavern, and, overcome by hunger and fatigue, he lay down in it, and soon fell fast asleep. He was suddenly awakened by the roar of a wild beast, and was so frightened that he ran to the mouth of the cavern, but was met by a great lion, which stood right in his way, and made it impossible for him to escape. The slave expected nothing else than to be at once torn to pieces, but, to his great surprise, the lion came gently towards him without shewing any signs of enmity or rage. It gave forth at the same time a low and mournful sound, as if it were begging his assistance.
- (b) By this time the moon began to rise, and cast over the plain her light which was of much assistance to us. The first thing was to examine the ground, and the soil being light and sandy, we had no difficulty in tracking the murderers for some distance. The science of tracking was well understood by our companions, and I have known such adepts in the art as to be able to follow a track for hundreds of miles. I was once with a party of villagers and police following a number of Things, who had murdered five travellers on the preceding night. The ground was hard and covered with grass, and beyond the marks of a struggle here and there, I could see nothing. But the trackers with me told me the number of men, women, children and ponies of which

the party consisted, and the description turned out right in every particular.

(c) On the 19th of June 1819, the western part of India was visited by an earthquake, which spread desolation and panic over a vast extent of country. It was felt from Bombay to Ceylon; but the centre of the shock seems to have been in the province of Cutch, which suffered severely. The first and greatest shock took place on the 16th June, a few minutes before 7 p.m. The wretched inhabitants of Bhoj were seen flying in all directions to escape from their falling habitations. A very dreadful noise, the violent undulatory motion of the ground, the fall of the buildings, and the terror which appeared in every countenance, produced a sensation fearful beyond description. The shock lasted from two to three minutes, and in which short period the city of Bhoj was almost levelled to the ground.

## SANSKRIT .- FIRST PAPER.

Text-book and Grammar.

1. Translate into English:

किसमंश्चित्वलाश्येऽनागतिध्धाता प्रत्युत्पन्नमित्रंद्भित्यः श्चेति त्रयो मत्स्याः प्रतिवसन्ति स्म । अय जदाचितं जलाश्चयं दृष्ट्वा गच्छद्भिमंत्स्यजीविभिमक्तम् । अहो बहुमत्स्योऽयं
हृदः कदाचिदिपि नास्माभित्नवेषितः । तदद्य तावदाहारिनश्वतिः संजाता संध्यासनयश्च संजातः । ततः प्रभातेऽत्रागन्तश्वमिति निश्चयः । अथ तेषां तत् कुलिशोपमं वषः समाक्षर्यो
ऽनागतविधाता तौ मत्स्यावूचे। अहो श्रुतं भवद्भ्यां यन्मत्स्यजीविभिरभिष्टितम् । तद्रात्राविष गम्यतां किञ्चिनिकटं सरः॥

- (a) State the धातु and प्रत्यय in ऋभिहित and प्रत्युत्पन्न.
- (b) Conjugate the roots of प्रतिवसन्ति and संजात: in the preterite (जुङ्).
  - (c) Decline त्रि and ग्रागच्छत् in all cases and genders.

2. Write out in prose order:-

शत्रुमुन्मूलयेत प्राज्ञर्ती हतां ती हतान शत्रुता। व्यथाकरं सुखार्थाय व्ययटकेनेव कर्राटकम् ॥ योऽमित्रं कुरुते मित्रं वीर्याभ्यधिकमात्मनः। स करोति न सन्देहः स्वयं हि विपमत्तराम्॥ म स्वलपस्य कृते भूरि नाशयेन्यतिमान्तरः। एतदेवात्र पारिहत्यं यतस्वलपाद् भूरिरत्तराम्॥

- (a) Parse the underlined words.
- (b) State the rules of संधि in कण्टकेनेय. योऽमित्रं, यीयभ्यिकं and नाशयेन्सितमान्.
  - (c) Decline भूरि and कृते in the objective case.
  - 3. Write out the purport in English or Hindi :-
    - (a) अत्यच्छेनाविसहोन सुवृत्तेनातिचास्ता। अन्तर्भिनेन संपाप्तं मौक्तिकेनापि बन्धनम्॥
    - (b) आरम्भगुर्वी सियगी क्रमेग लघ्वी पुरा वृद्धिमती च पञ्चात्॥ दिनस्य पूर्वार्धपरार्धभिन्ना छायेव सेत्री खलसज्जनानाम्॥
- (a) Re-write the extract (a) changing the passive into the active construction.
  - (b) Parse the underlined words.
  - 4. मनमा चिन्तितं कार्यं वचसा न प्रकाशयेत् । प्रान्यलित्तकार्यस्य यतः सिद्धिनं जायते ॥ सेवितव्यो गहाष्ट्रतः फलच्छायासमन्वितः यदि दैवात् फलं नास्ति छाया केन निवार्यते ॥
  - (a) Translate the above into English or Hindi.

- (b) Expound and name the Samásas in the underlined words.
- (c) Conjugate the roots सेव and ग्रस् in the preterite लिट्.
- 5. तां तु राजा दशरणो महाराष्ट्रविवर्धनः। प्रीमावासयामास दिवि देवपतिर्यणा॥
- (a) Write out the above extract in prose order.
- (b) Decline चो and राजम् in all cases.

#### SECOND PAPER.

Translation from Sanskrit into English.

Translate the following extracts into English:—

- (a) न नरस्य नरी दासी दासस्त्वर्धस्य भूपते।
  गौरवं लाघवं वापि धनाधननिवन्धनस्॥ १॥
  यो यत्र कृशलः कार्ये तं तत्र विनयीजयेत्।
  कर्मस्वदूष्टकर्मा यः शास्त्रज्ञोऽपि विसुद्धाति॥ २॥
  यत्र विद्वज्जनी नास्ति प्रलाद्यस्यश्राहपधीरपि।
  निरस्तपादपे देशे एरग्डोपि दुसायते॥ ३॥
  गाद्यसिः सर्वसाकावस्यकं मानं न सन्ते।
  - शङ्काभिः सर्वमाक्रान्तमनं पानं च भूतले । प्रवृत्तिः कुत्र कर्तव्या जीवितव्यं क्षयं नु वा ॥ ४ ॥
  - स्तोकेनोचितिमायाति स्तोकेनायात्यधोगतिम्। श्रहो सुसद्रशी वृत्तिस्तुलाकोटेः खलस्य च॥ ५॥
  - को धर्मो भूतद्या, किं सौख्यमरोगिता जगित जन्तोः। कः स्नेहः सद्भावः, किं पाश्डित्यं परिच्छेदः॥ ६॥
- (b) पितुराच्चया रासा वनं जगामिति निजजनन्याः कैकेया मुखादुपश्रुत्य भरतो महता दुःखेनाभिभूतो भातरं द्रष्टु वना-

सिमुखं चचाल । कालेन प्रापंच भरद्वाजमुनेराजसपद्म्। तती मुनिवरेण दर्शितमागीऽचिरादेव चित्रकूटपर्वतं ययौ । तत्र महतीं पर्योशालामधिवसन्तं ससीतं सहलदमगं रामं दृष्टा दुःखमे।हपरिष्ट्रतो भरतोऽतित्वरया तमवाप्य प्रस्थित्रमुखो नेत्रास्यामश्रुजलं वर्षम् बहु विलगन् तस्य पादयोः पपात । अनन्तरं श्रृष्ट्रोऽपि रुद्न् श्रीरामचरणी ववन्दे। रामाऽप्य-भाविप भातरी दीनावस्थां गती समालिङ्गय लोचनाभ्याम-श्रृिका मुमेाच। श्रथ लव्यसंझं भरतमङ्कमारोप्य सादरं पर्य-पुँच्चत तात, कस्मात् त्वमर्गयमागतोऽसि । अपि क्शली तव पिता । जीवतस्तस्य तव वनागननं न सम्मवति। इति स्रात्-वैचनं श्रुत्वा भृशदुः खिती भरतः प्रत्युवाच श्रार्यं, त्यद्विरहात तातो लोकान्तरं गतः। राज्यं च सम्प्रति अराजकम्। अतस्त्यां सप्रश्रयं प्रार्थयेऽयाच्यां प्रतिनिवृत्य तद्गाज्यस्वीकारेणान्गृहा-गास्मान् पौरजानपदांश्चेति ॥

## THIRD PAPER.

Translation from English into Sanskrit.

Translate into Sanskrit:-

- (1) The trees which we planted in our garden, bear fruit in antumn.
- (2) Of quadrupeds, the elephant is the largest, and the mouse is the smallest.
- (3) The business being accomplished, we started for home.
- (4) He was unable to restrain his passions.

- (5) A good man has no fear of death.
  (6) Virtuous conduct leads to prosperity.
  (7) I will give that kingdom to my faithful minister.
- (8) He bought a horse for a thousand rupees.
- (9) The mother leads her child home.(10) The king reigned for fifty years.

One day the fox came, and, having approached and made obeisance, said, "Hail, O king of the beast! how is the health of your majesty?" The lion answered, "O my friend, I am very feeble, and all my teeth have fallen out and my appetite is quite gone: please to enter my poor dwelling that I may listen to your conversation." The fox said, "In the first place answer me one question. I see here the footmarks of a great many animals that have entered your dwellings; how is it that there is no trace of any one that has returned."

### SCIENCE.—FIRST PAPER.

## Physics.

- 1. What is the standard of length on the metric system? Name its multiple and submultiple divisions, and state the principle on which the system is based. What are its advantages? Compare the volumes of two cubes, the area of each face of one of which is thrice that of the other.
- 2. Distinguish between the mass and the weight of a body. Describe an experiment to illustrate that the weight of a body may be made to appear greater than it actually is, the mass remaining unaltered.
- 3. Describe the principle of the Lever, and show how it has been utilized in the construction of a balance. Explain why by means of a crowbar and a block of wood a workman is able to move a heavy log.
- 4. A body placed in one scalepan of a false balance appears to weigh 10 lbs.; when placed in the other it weighs 12 l lbs. If the longer arm of the balance be 11 inches in length, find the length of the shorter arm, and the true weight of the body.
- 5. Distinguish between absolute and relative density, and prove that the former depends on the units of length and mass, while the latter does not. Show also that on the metric system, the two densities are expressed by the same number.
- 6. Describe, with sketches of the appliances used, any two methods of measuring the density of any liquid relative to water.
- 7. Describe the construction and use of a barometer. How does the length of the column of mercury in a barometer

change with the altitude above the sea-level? Give reasons for your answer.

- 8. What are the fix points of a thermometer? Describe carefully how they are determined.
- 9. How would you convert a Fahrenheit into a Centigrade temperature?

Find graphically or otherwise the temperature at which the Fahrenheit and the Centigrade thermometers give the same reading.

#### SECOND PAPER.

#### Chemistry.

- I. Give some of the properties which are possessed by all kinds of matter and explain in your own words what is meant by a property.
- II. What is meant by the Imperial Standard Yard? Compare its length with that of a metre.

Express 6 inches, 1.25 feet, and 2.6 yards, both in metres, and in millimetres.

- III. Define mass and weight of a material body, earefully distinguishing between the terms. Describe with a sketch an instrument for determining the mass of a material body and explain how it is used.
- IV. Multiply 10.4 square centimetres by 15.5 decimetres and state the result both in cubic centimetres and in litres. If the volume in question were filled with water at 400, what would the weight of the water be?

Express 55°F. in degrees centigrade and 15°C in degrees Fahrenheit.

V. Describe fully how you would determine the density of mercury. A test tube weighted with sand is placed in a graduated jar, and displaces 26 c.c. of water, 32 c.c. of alcohol, 21 c.c. of glycerine, and 14 c.c. of sulphuric acid. Find the specific gravities of the three given liquids.

VI. Give a list of as many things as you can which will dissolve in spirits of wine and carbon disulphide but not in water. What do yot mean by a saturated solution? How would you prepare a saturated solution at a given temperature? What is generally the effect of cooling a saturated solution?

A white powder is shaken up with water. How would you ascertain whether any of it dissolves?

VII. What is a crystal? How would you show that crystals of soda contain water? What is the water called? What is the use of this water?

Powdered glass and salt are stirred up in a bottle containing water in which some gas is dissolved. What methods would you use to recover the glass, salt and gas from the water?

VIII. Define the terms Efflorescent, Deliquescent, and Decrepitation. Explain how you would make some crystals of sulphur.

State several actions you have been shown in which matter apparently disappears, and explain what reason you have for supposing that what has disappeared is still in existence, although no longer visible.

IX. What amount of white residue can be got by dissolving 10 grammes of Calcium Carbonate in Hydrochloric Acid and evaporating the Solution obtained? What is the name of the residue?

## URDU.-FIRST PAPER.

1. Give the meaning of the following:—

مورد آلام — پروان چرهنا — شب مشک ریز — سنگ
غم فرقت — انداز گل افشانی گفتار — انشاء اُردو کا

دستورالعمل — سنگ لاخ زمینین — چرخ سفله نواز —
قوت کهردائی — هوتی ترکی تمام اخاذون کی \*

- 2. Explain the allusions contained in the following verses:—
  - بیتوں کی طرح چاھتے تھیں بیتیوں اکو اب (a) جو لوگ روا رکھتے تھے خونریزی دختر
  - معلوم هے جو مورون په اسپین میں گذري (b) جسوقت از بلا هوئي وهاں صاحب افسر
  - سامري فن بھي عدو هو تو نھو اوسكا گذر (٥) چوب دربانہيں هے موسى كے عصا كے عالم
  - جب ملا رامچسندر کو بس بساس (d) اور نسکسلا وطسس سے هسو کے اُداس گندرے غربت میں اسقدر مہ و سال پسر نسه بهولا اجمدهیا کا خسیال
- 2. Explain the following passages fully, connecting each passage with its context\* and paying special attention to underlined words and expressions:—
- اس باغ کے دیکھنے سے بہشت بریں کا نقشہ آنکھوں (۵)

  کے سامنے پھر جاتا ہے۔ ہر درخت اسکا رشک قامت یار
  اور ہر گل اسکا غیرت گل رخسار۔ اس کی سہن کے آگے
  بنا گوش یار خجل اور اوسکے بنفشہ کے سامنے زلف خوبان
  منفعل۔ روش میں نہر ہی کا پانی آتا ہے اور گلہاے
  مطرا اور درختان داکش کی تازگی کا باعث ہوتا ہے \*\*
- کلنار کو دیکھکر لعل انگاروں پر لوتنا ہے سبزے (b)
- کے رشک سے زسرد زهر کهاتا هے \* غرض هر چند که تخلص انکا میر تها مگر گنجفه (٥)
- سخن کی بازی میں آفتاب هوکر چہکے ۔ قدردانی نے آنکے ا کاام کو جواهر اور موتیوں کی نگاهون سے دیکھا اور نام کو پھولوں کی مہک بناکر اُڑایا هندوستان میں یہہ بات

انھیں کو نصیب ہوتی کہ مسافر غزاوں کو تحفہ کے طور پر شہر سے شہر میں لیجاتے تھے \*

ولا آفتاب تها جو چهکتا جهان پر (b) بيتها تها سكه جسكا زمين و آسهان پر كهولي هوئي شفق كا نشان رزن برن سي ركهكر كون كا تاج نكلتا تها شون سي اسكي عهل كو تورنا تيرا هي كام هي سكه هي اب ستارون كا اور تيرا نام هي محنت ثهر تها اسكا تو راحت هي پهل ترا چاندي تها اسكا حكم تو سونا عهل ترا چاندي تها اسكا حكم تو سونا عهل ترا

قه چهیر اے فکہت بان بہاری راہ لگ اپنی (ع) التجھے اتھکھیلیاں سوجھی ہے ہم بیزار بیتھے ہیں بسان نقش پاے رهرواں کوے تہنا میں فہیں اُتھنے کی طاقت کیا کریں لاچار بیتھے ہیں نہد اپنی چال ہے اُفتادگی سے اب که پہروں تک نظر آیا جہاں پر سایه دیوار بیتھے ہیں نظر آیا جہاں پرچھو ہو پورب کے ساکنوں (f)

هدکو غریب جان کے هنس هنس پکار کے دلی جو ایک شہر تھا عالم میں انتخاب رهنے تھے منتخب هی جان روزگار کے اسکو فالک نے لوت کے ویان کو دیار کے هم رهنے والے هیں اُسی اُجاڑے دیار کے

Who were the authors of extracts (e) and (f) and on what occasions were the poems referred to composed?

By "context" is meant a brief expression of such parts of the text preceding and succeeding the passage set as are useful to an adequate understanding of it.

4. Define and illustrate:-

مشار اليه - مذكر حقيقي - فعل مجهول مركب امتزاجي - تابع مهدل

5. Give the genders of the following nouns:-

سير - دهي - بلنگ - قلم - بلبل

#### SECOND PAPER.

Translate into Urdn:—

Shylock, the Jew, lived at Venice: he was an nanrer, who had an assed an immense fortune by lending money at great interest to Christian merchants. Shylock, being a hard-hearted man, exacted the payment of the money he lent with such severity, that he was much disliked by all good men, and particularly by Antonio, a young merchant of Venice; and Shylock as much hated Antonio, because he used to lend money to people in distress, and would never take any interest for the money he lent; therefore there was great enmity between this covetous Jew and the generous merchant Antonio. Whenever Antonio met Shylock on Rialto (or Exchange), he used to reproach him with his usuries and hard dealings, which the Jew would bear with seeming patience, while he secretly meditated revenge.

2. Write out in simpler Urdn the following passage, changing the underlined parts:—

آزاد هندي نهاد کے بزرگ فارسي کو اپني تيخ زبان کا جوهر جانتے تھے ہگر تخهينا سو برس سے کل خاندان کي زبان اُردو هے - بزرگوں سے ليکر آجٽک زبانون کي تحقيقات ميں کہال سرگرمي اور جستجو رهي - اب چند سال سے معلوم هوتا هے اس ملک کي زبان ترقي کے قدم برابر آگئے بڑها رهي هے يہانتک که علمي زبانوں کے عمل ميں دخل پيدا کر ليا اور عنقريب بارگام علم ميں کسي درجه خاص

کی کرسی پر جلوس کیا چاهتی ہے ایک دن اسی خیال میں تھا اور دیکھہ رہا تھا کہ کس طرح قدم بقدم آگے برقھی ۔ کس طرح عہد بعہد اس درجہ تک پہونچی ۔ قمجب ہوا کہ ایک بچہ شاہجہائی بازار میں پھرتا ملے ۔ شعرا اُسے اُتھا لیں اور ملک سخن میں پالکر پرورش کریں انجام کو یہانٹک نوبت پہونچے کہ وہی ملک کی تصنیف و تالیف پر قابض ہو جا ۔ \*

3. Explain the following couplets:-

کوست غہخواری میں میرے سعی فرمائینگے کیا (1) زخم کے بھرنے تلک ناخی نه برج جائینگے کیا

جان دے دی هوڙي اُسي کي تهي (2) حق تو يه هے که حق ادا نه هوا

درم و دام الله پساس کہاں (3) چیل کے گھونسلے میں ماس کہاں

لائی حیات آئی قضا لے چلی چللے (4) اینی خوشی چلے اپنی خوشی خلے

یہہ چپ نہ لگاے کسی دشمی کو بھی اللہ (5) یہہ چپ نہیں مرجانے کی ہے دل کی نشانی

4. Explain the use of the following idioms :-

ملوائي کي دوکان اور دادا جي کا فاتحه (1)

اونچي دو کان پهيکا پکوان

رسی جل گئی مگر بل نہیں گیا اپنی گلی میں کتا بھی شیر ہے (4)

5. Write an essay in Urdu, not covering more than two pages of the answer-book, on the following proverb:--

'Early to bed, and early to rise, makes a man healthy,

wealthy and wise.

#### HINDI.—FIRST PAPER.

1. Render the following into plain prose (Hindi):-

सब बिधि गुरु प्रसन्न जिय जानी। बोलेउ राउ रहिस मृदुवानी॥
नाथ रामु करियहि जुवराजू। कहियकृपाकरिकरिय समाजू॥
मोहि प्रस्त यह हो इ उद्याहू। लहि हो लोग सब लोचनलाहू ॥
प्रमुप्तसाद सिव सबद निवाही। यह लालसा एक मन माहीं॥
पुनिन सोच तनु रहउ कि जाऊ। जेहि न हो इ पा छे पछिताऊ॥
सुनि मुनि द्सरेथ बचन सहाये। मंगल मोद मूल मन भाये॥
सुन नृप वास विमुख पछिताहीं। वासभजनिवनु जरिन नजाहीं॥
भयउ तुम्हार तनय सोइ स्वामी। रामु पुनीत प्रेम प्रमुगामी॥

बेगि विलंबु न करिय नृप, साजिय सबुद समाज । झदिन सुमंगलु तबहिं जब, रामु होहिं जुबराजु॥

- (a) Define samasa. Give examples of the different kinds of samasas. Pick out the compounds in the preceding extracts and expound them.
- (b) Give the originals of these apabhramsa forms जुबराजू, उछाहू, लाहू and पछिताज. Parse नाय, कहिय, मुहाये and भाये.
- 2. Fully explain the following in Hindi:—
  सादर पुनि पुनि पूछिति जोही। सबरी गान मृगी जनु मोही ॥
  तसि मित फिरी श्रह ई जिसमाबी। रहसी चेरि घात जनु फाबी॥
  तुम पूछहु में कहत हराऊं। घरेउ मोर घर फोरी नाऊं॥
  सिज प्रतीति बहु बिधि गढि छोली। श्रवधसाद सातीतब बोली॥
  प्रिय सियरामु कहा तुम रानी। रामहिं तुम्ह प्रियसा फुरिबानी॥
  रहा प्रथम श्रव ते दिन बीते। समठ फिरे रिपु हो हिं पिरीते॥
  भानु कमल कुल पोध निहारा। बिनु जर जारि कर इसोइ छारा॥
  जर तुम्हारि चह सबति उलारी। रूं धहुं करि उपाठ बरबारी॥

तुम्हिहं न सोचु से।हाग बल निजबस जानहुं राउ। मन मलीन मुहु मीठ नृषु राउर सरल सुभाज॥

- (a) Explain the similes in lines 1 and 2 of the preceding extracts.
  - (b) What is सादसाती? What effect did it produce on ग्रवध?
  - 3. Translate the following extracts into English:
  - (a) रिच पिच कोटिक कुटिल्पन कीन्हेसि वापट प्रबोधु। कहेसि कथा सत सवति के जिहि विधि बाढ़ बिरोधु॥
  - (b) कडू बिनतहि दीन्ह दुख तुम्हिहं कौ सिला देव। भरत् बंदिगृह सेइहिं लवन् राम के नेव।।
  - (c) सांभ समय सानंद नृप गयत के कई गेह । गवन् निदुश्ता निकट किय जन् धरि देह सनेहः॥
  - (d) बार बार कह राउ सुमुखि सुलोचिन पिकवचिन । कारन मोहि सुनाउ गजगामिनि निज कोप कर॥
  - (e) मांगु मांगु पे कहह पिय कबहुं न देहु न लेहु। देन कहेह बरदान दुइ तेउ पावत संदेहु॥
  - (1) Explain the allusions in extracts (a) and (b).
  - (2) 'बरदान दुइ'—Name these.
  - 4. Explain :--

# सोचनीय नहिं कीसलराज । सुवनचारिद्स प्रगट प्रभाज ॥

- (a) Give the names of ' भुवनचारिद्स.'
- (b) Mention those who have been enumerated by Tulsidas as "शोबनीय" and quote his lines if you can?
- 5. Give the original forms and synonyms of the following words:

सरिस, आयसु, स्नुतिपंघ, दोष, बांमा, मरमु, बरबसम, भुआल, अभियरहित, धीरज, खोम, स्त्रवन.

#### SECOND PAPER.

- 1. Describe the character of Chanakya in Hindi and enumerate the causes which led him to play the part he is assigned in the Mudrārākshasa.
  - 2. Explain fully the following extracts in Hindi:-
  - (a) काल सर्पिणी नन्दकुल, क्रीध धूम सी जीन। अबहू बांधन देत नहिं, श्रही शिखा मम कीन॥
  - (b) जदिप हात सुन्दर कमल, उलटो तदिप सुभाव। जो नित पूरन चन्द सो, करत विरोध वनाव॥
- (a) राष्ट्रस अपने स्वामी की स्थिर भक्ति से और यहां के बहुत दिन के रहने से यहां के लोगों का, सब नन्द के साथियों का विश्वासपात्र हो रहा है और उसका स्वभाव सब लोग जान गए हैं और उसमें बुद्धि और पौरूप भी है वैसे ही उस के सहायक भी हैं और कोपवल भी है। इससे जो वह यहां रहे तो भीतर के सब लोगों को छोड़ कर उपद्रव करें और जो यहां से दूर रहे तो वह ऊपरी जोड़ तोड़ लगावै पर उनके मिटाने में इतनी कठिनाई न हो, इससे उसकी जाने के समय उपेद्या कर दी गई॥
  - (d) निहं ग्रस्त को यह काल यासों मीत जीवन जाइ है। जो नीति सोचें या समय तो व्यर्थ समय नसाइ है॥ चुप रहनहू निहं जोग जब ममहित विपतिचन्दनपरघौ तासों बचावन प्रियहिं ग्रब हम देइ निज विक्रय करघौ
  - असरद विपल ऋतु सोहई, निरमल नील प्रकास। निसानाथ पूरन उदित, सोलह कला प्रकास॥ चारु चमेली बन रही, मँह मँहक सुबास। नदी तीर पूले लखी, चेत सेत बहु कास॥

कमल कमोदिन सरन में, फूले सीमा देत। भीर खन्द जापे लखी, गूंजि गूंजि रम लेत॥ बसन चांदनी चन्द सुख, उड़ुगन मोती माल। कास फूल मधु हास यह, सरद किथीं नव बाल॥

- (a) Translate the above extract into English.
- (b) What do you understand by the सोलह कला of निसानाथ?
- (c) What is the force of the words सेत सेत in line 4 of the above extract?
- (d) Clear the figure in the last two lines of the above extract and write the same in simple prose.
  - 4. (i) दूजे के हित प्राण दै, करें धर्म प्रतिपाल। को ऐसी शिव के बिना, दूजो है यह काल ॥
    - (ii) जद्पि उदित कुमुदिन सहित, पाइ चांद्नी चन्द । तद्पि न तुम बिन लसत है, नृपससि जगदानन्द ॥
  - (a) Explain the allusions contained in the above verses.
  - (b) Give the context of verse (ii).
  - 5. Give the prose order of the following verses:—

    निज प्रभु सों करि नेह जी, भृत्य समर्पत देह ।

    तिन सों अपने सुत सरिस, सदा निबाहत नेह ॥

    ते गुण प्राहक नृप सबे, जिन मारे बन माहिं।

    ताही बिधि को देस यह, औरन को कब्रु नाहिं॥

    उते भवर को शब्द इत, भवर करत गुंजार।

निज सम तेहि लखि नासि है, दंतन तीरि कछार॥

6. Give the meanings of the following words and expound the samasas of the first three of them:—

कीमुदी-महोत्सव, शुभाकांची, श्रिष्टाचार, श्रन्तरंगी-मंत्री निराकरण। 7. Translate the following extract into simple Hindi:

After this interview with the king, Ratipal hastened to see Ranmalla, and there, as if to oblige and save from utter destruction an old comrade and associate, informed him that, for some unknown reason, the king's mind was greatly prejudiced against him, and he advised him to go over to the enemy on the first alarm; for he said Hammir had resolved to make him a prisoner that very night. He also told him the honr at which he might expect to be visited by the king for this purpose. Having done this, Ratipal quietly waited to see the issue of the mischief he had so industriously sown.

#### AGRICULTURE.

- 1. Explain the principle on which it has been recommended that a cereal crop should be grown after a leguminous crop.
- 2. Describe a method of preserving cattle dung for manure.
- 3. Assuming that farmyard manure is not available what other manures will you apply to:
  - (a) A sandy soil for growing barley?
  - (b) A heavy clay for growing peas?

Give your reasons.

- 4. What is meant by "industrial crops"? Name one of such crops and give a brief account of its cultivation and the harvest.
- 5. What are the salient points of a bull fit for breeding purposes.
- 6. Describe the treatment of a cow for a fortnight after calving.
- 7. Name and describe the constituents of milk; and state briefly the method of making butter from it, explaining the changes which take place in the process of manufacture.
  - 8. What are the objects of:-
  - (1) Clod-crushing;

- (2) Harrowing;
- (3) Irrigation?

#### DRAWING.

- 1. Construct the following angles by set squares:—75°, 105°, 120°, 150°, and 255°, and bisect any one of these by a set square.
- 2. Construct a diagonal scale of a yard to an inch to read yards, feet and inches; and mark on it 4 yards, 2 feet and 9 inches.
- 3. The perimeter of a triangle is 12 inches and two of its angles are 60° and 30°; construct it and find its area.
- 4. The distance between the centres of two circles having 2 inches and 1 inch radius respectively is 4 inches; draw, a common exterior as well as an interior tangent to the circles.
- 5. Describe the methods of constructing a square having (1) twice the area of a given square; (2) half the area of a given square; and (3) equal to three given squares.

#### DRAWING.

Draw a freehand sketch of the models on the table in front of you.

Show the nearest edge of the table.

The sketch must be not less than six inches high, and all lines must be drawn, not ruled.

#### GEOGRAPHY.

Answers to Parts I and II to be written in separate answer books marked I and II respectively.

T.

1. Define the terms Latitude and Longitude and state how each is measured. Show that in order to give the position of a place we must state its latitude and longitude.

- 2. Explain clearly how eclipses of the sun and moon are caused. Illustrate your remarks by means of a diagram or diagrams.
- 3. What are volcanocs, and how are they formed? Give reasons for supposing that earthquakes and volcanoes are of similar origin.
- 4. Draw a map of Africa, carefully bringing out those features of its physical aspect which have rendered Africa the most isolated and inaccessible of all the continents.
- 5. What and where are the following? Mention any circumstance of interest connected with each that may be known to you:—Dardanelles, Tunis, Spitzbergen, Quebec, Stromboli, Sarawak, the Levant, Uganda, La Rochelle, and Sebastopol.

#### II.

- 6. What do, you understand by the Relief of a country? Into what regions may India be divided in point of relief?
- 7. What particulars must be known before we can find out the climate of any place in India? Illustrate your answer by reference to any one of the principal towns of India.
- 8. Account for the variety in the distribution of rainfall in India. Give a full account of the monsoons.
- 9. Write out a list of the principal products of India, excluding food-stuffs, and name the places where each is chiefly grown.
- 10. What and where are the following:—Yanaon, the Pennan Jaisalmir, Pudakota, the Karakonams, the Bhor Ghat, Chandbali, Dharmsala, the Northern Circars, and Hazaribagh?

## MATRICULATION EXAMINATION, 1909.

ENGLISH.—FIRST PAPER.

#### Prose.

[Note carefully the different sections A, B, C, and write your answers in the proper books provided for them.]

#### Section A.

1. Either (a) If good men are playing, the quickness of the returns is marvellous; you hear the rattle like that

a boy makes drawing his stick along palings, only heavier, and the closeness of the men in action to one another, gives it a strange interest and makes a spell at back-swording a very noble sight.

Explain the portions in italics.

What is back-swording?

Parse-marvellous, like, along, sight.

Or (b) His personal character and influence had not had time to make itself felt, except by a very few of the bigger boys with whom he came more directly into contact; and he was looked upon with great fear and dislike by the great majority even of his own house, for he had found the school and school-house in a state of monstrous license and misrule, and was still employed in the necessary but unpopular work of setting up order with a strong hand.

Explain the portions in italics.

To whom does this passage refer? Describe briefly his personal character.

Parse—had had, felt, work.

2. It was a fine November morning, and the close soon became alive with boys of all ages, who sauntered about on the grass, or walked round the gravel walk, in parties of two or three. East, still doing the cicerone, pointed out all the remarkable characters to Tom as they passed.

Explain the portions in italics.

Mention two of the 'characters' and state why they were 'remarkable.'

## Section B.

3. So they reconnoitred the walls carefully, borrowed a coal-hammer from old Stumps, bought some big nails, and after one or two attempts, scaled the school, and possessed themselves of huge quantities of fives-balls. The place pleased them so much that they spent all their spare time there, scratching and cutting their names on the top of every tower; and at last, having exhausted all other places, finished up with inscribing H. East, T. Brown, on

the minute-hand of the great clock, in the doing of which they held the minute-hand, and disturbed the clock's economy.

Explain the portions in italics.

How were East and Tom discovered, and how were they punished?
Parse—doing.

Keep the latter before you as your one object, and you will be right whether you make a living or not; but if you dwell on the other, you'll very likely drop into mere moneymaking, and let the world take care of itself for good or evil. Don't be in a hurry about finding your work in the world for yourself-you are not old enough to judge for yourself yet—but just look about you in the place you find yourself in and try to make things a little better and honester there.

Explain the portions in italics.

Convert the first sentence 'Keep . . . evil' into the indirect form of narration.

#### Section C.

5. We need throughout the march of life every detail of preparation that is brought within our reach during our school and training days. He who fails to use his opportunities to make ready in every possible way for the calling he is to pursue is preparing mortification for himself in the days when in the stress of life's duty he finds himself wanting. A lesson missed in boyhood is a chance for disaster in after years. A whole curriculum missed is preparation for a career of inefficiency and dishonour. It is fatal to chuckle over getting through examinations without proper preparation. The man who does the chuckling is to be pitied, not congratulated. A true education can be got only by paying the full price. That which is worth striving for can be got only by patient and persistent application.

Explain the portions in italics.

Analyse the second sentence; i, c, 'He who fails .... wanting.

6. Railway can go, thanks to the skill of the modern engineer, into any corner of the earth where there is traffic sufficient to make them pay. Hence their creation opened out numerous corners of Great Britain which physical difficulties had hitherto kept in seclusion and poverty. Wherever coal and iron existed, they could now be utilized. Wherever manufactures are produced, they can easily be conveyed to the centres of home consumption or to the seaports which send them to foreign lands. Not the least important side of railway extension was that it made possible the easy transfer of labour from place to place.

Explain the portions in italics.

Give in your own words a brief account (not more than fifteen lines) of the part played by railways in developing the resources of India.

#### ENGLISH.—SECOND PAPER.

#### Poetry.

[Note carefully the different sections D, E, F, and write your answers in the proper books provided for them.]

#### Section D.

- 1. Explain clearly in your own words the meaning of the following extracts: refer briefly to the context of each, and parse the italicized words.
  - (a) Colder and louder blew the wind, A gale from the north-east; The snow fell hissing in the brine And the billows frothed like yeast.
  - (b) Fear no more the frown of the great, Thou art past the tyrant's stroke; Care no more to clothe and eat To thee the reed is as the oak.
  - (c) The sceptre, learning, physic, must All follow this, and come to dust.
    Our outward life requires them not:
    Then wherefore had they birth?

To minister delight to man, To beautify the earth.

(d) The deep affections of the breast
That Heaven to living things imparts
Are not exclusively possessed
By human hearts.

#### Section E.

- 2. Give the plain meaning of the following passages; and explain the grammatical construction of the parts italicized, and supply any words omitted or understood:—
  - (a) And parted thus they rest, who played Beneath the same green tree;
    Whose voices mingled as they prayed Around offe parent knee.
    They that with smiles lit up the hall, And cheered with song the hearth—Alas for love, if thou wert all, And naught beyond, O earth I
  - (b) Full fathom five thy father lies:
    Of his bones are coral made:
    These are pearls that were his eyes:
    Nothing of him that doth fade,
    But doth suffer a sea change
    Into something new and strange.
  - 3. Analyse in tabular form:

    Try as I like to find the way,
    I never can get back by day,
    Nor can remember plain and clear
    The curious music that I hear.
- 4. Give the substance of the poem Abou Ben Adhem and the Angel.

#### Section F.

5. Considerable as are the disadvantages which persons have to contend with who begin their aequaintance with books, only late in life, it ought not to be forgotten, on the other hand, that all the chances of the race are not against them. The thought of the time they have lost and are anxious to redeem is itself a stimulus that will make up for many disadvantages. Then, although they have not yet learned much from books, they have

nevertheless learned of necessity a great deal from other sources; and they come to their studies, too, with faculties which, if not quite so pliant as those of childhood, have much more vigour and comprehension.

(a) Give, in your own words, the substance of the above passage; and explain the portions in italics.

(b) Analyse the concluding sentence:— Then, although

... comprehension.'

(c) Explain the grammatical construction of 'considerable as are the disadvantages': 'is itself a stimulus': 'if not quite so pliant as those of childhood.' And parse the words only, itself, of necessity.

#### THIRD PAPER.

#### English Essay.

Write an essay on either of the following subjects:

(1) Union is strength.

(2) 'Errors, like straws, upon the surface flow, He who would search for pearls, must dive below.

# THIRD PAPER. URDU.

(N.B.—Write the answers to the different sections in separate answer books.)

G.

Translate into English:

انگریز مسافروں نے کشمیر کے پہارونپر سیر کرکے یہانکی خوبصورتی کا اسطرے بیان کیا ہے کہ شائد ایسی تصویر خوبصورت فطرت کی دنیا میں اور کہیں نہیں ہے۔ آب و هوا اور فطرت (Nature) کی خوش آیندگی اور جن کہانیکی چیزوں سے بدن میں طاقت اور دامیں خوشی پیدا ہوتی ہے۔ ان سب بواعث سے کشمیر دنیا میں فردوس کرکے مشہور ہے۔ جب ایام بہار شروع ہوئے اور برت پگھلنے لگا تب تو

فطرت کی خوبصورتی اوبل پرتی ہے ۔ جازوں کی برف سے
تھکے ھوئے درخت وغیرہ اپنے برت کے اور ہن کو چھور کر
پیولونکی کلیونسے آراستہ ھونے لگتے ھیں ۔ جدھر آنکہ
پییرو اودھر ھی دیکھوگے کہ درخت اور بیل پھولونکے
زیورات سے تھکے ھیں ۔ کشہیر ھر رنگ کے خوشبودار اور
خوص آیند پھولونسے بھرپور ہے ۔ سیب انگور وغیرہ ھر
قسم کے لذیذ میوے پیدا ھوتے ھیں ۔ انگور اتھارہ اقسام
کے اتنے کثیر اور نہایت ذایقہ دار ھوتے ھیں کہ کشہیری
اپنی شیخی سے کہا کرتے ھیں کہ اگر ھم خدا کو کھلانے پاتے
اپنی شیخی سے کہا کرتے ھیں کہ اگر ھم خدا کو کھلانے پاتے

H.

کوی نور دنیا میں نامور اور تواریخ میں ایک مشہور هیرا هے۔یهه برا اور چهکیلا هیوا کتنے مدّت سے ملا هے یهه كودِّي نهيں كهه سكتا ـ كورِّي كهنا هے كه قريب پانيج هزار برس کے پہلے مسوای پٹن کے پاس گوداوری ندی میں یہم هُيُراً مَادْ تَهَا \_ اور كُوتُنِي يَهُمْ كُهُمَّا هِيَ كُمْ يَهُمْ وَهِي هَيُوا هِي جسكو كرش جي پهنتے تهے اور جسكا نام سيام ناتهه تها -دوسروں کی رآے یہہ ھے کہ اوجین کے اُراجہ وکرمادت کا تھا۔ مسلماً نوں کی تواریخے سے معلوم ہوتا ہے کہ یہہ ہیرا پہلے زمانہ میں مآلوا کے هندو راجاؤں کے پاس رها کیا ۔ عَلاؤالدين خلجي نے جب مالوا اپنے تحت كرايا تب يهه هيرا اوسكے پاس آيا ـ مفل بادشاہ بابر نے اپني سوانح عمري میں لکھا ہے کہ اوسکے بیتے ہایوں کو گوالیار کے راجہ وکرماجیت سے یہہ جواهر ملا تھا - بعد کو جب فارس کے بادشاہ نادر شاہ نے دهلی کا دخل کیا تب اوسنے مغل بادشاہ محمد شام سے اسکو حاصل کیا اور اسکا نام کوم نور رکھا لے اسکے بعد کابل کے بادشاہ کے هاته م یہم هیرا اگا اور اوسکے

بیتے شاہ شجاع سے مہاراجہ رنجیت سنگہ کو ملا۔ جب پنجاب کا راج سکھوں کے هاتهہ سے نکلگیا تب سے یہہ هیرا ملکہ هند وکتوریا کے تاج شاهی میں چمکا۔ اس مول کا هیرا دنیا میں اور کوئی نہیں ھے'

#### HINDI.

(N. B.—Write the answers to the different sections in separate answer books.)

G

Translate into English: -

श्रंग्रेज़ सुसाफ़िरों ने कश्मीर के पहाड़ों पर सैर कर के यहां की शोभा का इस तरह वर्णन किया है कि शायद वैसी भगवान की रचना की शोभा दुनिया में और कहीं नहीं है। आब हवा और प्रकृति (Nature) की शोसा और जिन भोजन के पदार्थीं से श्रीर में बल श्रीर मन में श्रानन्द उत्पन्न होता है उन सब चीज़ों के कारण कश्मीर एथ्बी पर स्वर्ग कर के प्रसिद्ध है। जब दसन्त ऋत् का आरम्म हुआ श्रीर बरफ़ पिघलने लगा तब तो प्रकृति की शोभा उबल पड़ती है। जाड़ों के बरफ़ से ढके हुए पेड़ पालों बरफ़ के स्रोडन को छोड़ कर फूलों की कालियों से शीभित ही ने लगते हैं। जिधर आंखें फीरी उधर ही देखींगे वृत्त और लता पुष्पों के आधूषण से ढके हैं। कश्मीर नाना वर्ण के सुगन्ध श्रीर मनोहर पूष्पों से भरा पूरा है। सेव, श्रंगूर इत्यादि नाना प्रकार के खादिष्ट फल उत्पन्न होते हैं अद्वारह प्रकार के इतना अधिक और खादिए अंगूर होता है कि कश्मीरी बड़े गर्व से कहा करते हैं कि अगर हम भगवान की खिलाने पाते तो यहां के अंग्रों को खिलाकर उनकी तृप्त कर देते॥

को डिन्र दुनियां में प्रसिद्ध और इतिहास में वर्णित एक होग है। यह बड़ा और शमकीला होरा कितनी मुद्दत से गिला है यह कोई नहीं कह मकता। कोई कहता है कि करीय पांच हजार वर्ष के पहले मनुलियक्तन के पास गांदावरी नदी में यह हीरा मिला था। जीर कीई कहता है कि यह यहीं मिना है जो कुण्ना जी धारना करते घे छीर जिस का नाम स्यागन्तक था। दूसरों की राय यह है कि यह उजीन के राजा विक्रमादित्य का या। मुमलमानों के तवारीख़ चे गालुम होता है कि यह होरा पहुँन ज़माने में मालवा के हिन्दू राजामों के पाम रहा। घलाउद्दीन खिलजी ने जब मालया अपने आधीन कर लिया तय यह हीरा उमके हाथ काया । मीरान यादगाह वायर ने श्रपने जीवनवृत्तान्त में लिया है कि उम के बेटें हुमायूं की ग्वालियर के राजा विक्रमाजीत में यह शीरा मिला था। बाद जब फारस के बादगाइ नादिरगाइ ने दिली को दसल किया या तब तमने मांगल बादगाह सुहम्मदगाह से इसकी पाया। श्रीर इमका नाम कोछिन्र रक्ता। उनके बाद काबुल के बादशाह शहमद्गाह के हारा यह हीरा लगा और उसके बेटे णाहमूना में महाराज रणजीत सिंह की मिला। जब पंजाय का राज्य मिलों के द्वाग से निकल गया तब से यह हीरा भारतिश्वरी विश्वीरिया के राजमुकुट में विराजने लगा। इस मोल का हीरा दुनियां में श्रीर कोई नहीं है।

# MATHEMATICS. FIRST PAPER.

## Arithmetic and Algebra.

1. A metre = 39 3708 inches. Express 325 of a metre as a decimal of a yard (to six figures).

2. What will be the gain per cent. if mangoes bought at the rate of six for 5 as. are sold at the rate of five

for 6 as.?

3. In the first four months of 1906 the Indian Government sold Bills amounting to Rs. 97,984,311, obtaining £6,537,578 in exchange. Find the value of a rupee in English money to the nearest tenth of a penny.

NB.—Use no more figures than are necessary to obtain a result to the degree of accuracy indicated.

- 4. A holder of Rs. 5,500 of  $3\frac{1}{2}$ % Government paper sells at  $91\frac{1}{4}$  and invests in 4% stock at 101. If the brokerage is  $\frac{1}{8}$  for the first and  $\frac{1}{4}$  for the second, find the change in his income.
  - 5. Find the G.C.M. of  $21x^2-28x^2-46x+7$  and  $21x^2-58x+21$ .
- 6. The sum of two numbers is 4225 and their GCM. is 845. Show that there are two pairs of numbers satisfying these conditions, and find them.
  - 7. Simplify:

$$\binom{1+\frac{2a}{z^2}}{\frac{a}{a}-a} \binom{1+\frac{3a}{z^2}}{\frac{a}{a}+a} \binom{1+\left(\frac{a}{z-2a}\right)1-\frac{a}{z+2a}}{}.$$

8. Solve the equations:

(1) 
$$\frac{7-3x}{5} = \frac{14-5x}{3} + \frac{25-4x}{9}$$
.

(2) 
$$x^3 = 7xa^2 - 6a^8$$
.

9. An ordinary train, the average speed of which is 20 miles an hour less than that of the express, takes two hours longer than the express to go 150 miles. What is the average speed of each train?

10. To what number must 1, 5, and 13 be severally added so that they may be a continued proportion?

11. Obtain by means of a graph the square root of five.

#### SECOND PAPER.

#### Geometry.

[Only FOUR questions from PART I and FOUR questions from PART II to be attempted.]

#### PART I.—Practical Geometry.

Proofs of constructions are not to be given, but construction lines must be shown in all cases.]

1. Construct a triangle having one side (not the base) 1=2.4 in.: and the base angles=71° and 49° respectively. Draw the altitude. Measure the base and altitude, and calculate the area of the triangle as accurately as you can.

2. Construct two squares whose diagonals measure 1.7 in and 1.3 in, respectively, and then construct a third square equal in area to their sum. Measure a side of the third square to the nearest hundredth of an inch, and write down your result.

3. Describe a circle of radius 0.7 in., and then describe two other circles of radii 0.8 in. and 0.6 in. respectively, touching the first circle but having their centres 2 inches apart.

4. The accompanying figure is the plan of a field drawn

to the scale of 220 yards to the inch.

Make an exact copy of it, and find the area of the field to the nearest acre.

5. About a circle of radius 1·1 in. circumscribe a regular hexagon. Measure a side of the hexagon to the nearest hundredth of an inch, and write down your result.

## Part II.—Theoretical Geometry.

6. Prove that if a straight line cuts two parallel straight lines, the alternate angles are equal.

If an external bisector of an angle of a triangle is parallel to the opposite side of the triangle, prove that the triangle is isosceles.

7. Illustrate and explain by means of a diagram the geometrical theorem: 'If a straight line is divided externally at any point, the square on the given line is equal to the sum of the squares on the two segments diminished by twice the rectangle contained by the segments.'

If PQ is produced to R so that PR.  $QR = PQ^2$ , prove that  $PR^2 + QR^2 = 3 PQ^2$ .

8. Find the locus of a point which is equidistant from two given straight lines.

How many points are there equidistant from the sides of a given triangle? Illustrate your answer with a diagram.

9. Prove that equal chords in a circle cut off equal arcs.

Prove that an equilateral polygon inscribed in a circle is also equiangular.

10. If the three sides of one triangle are proportional to the three sides of another triangle, prove that the two triangles are equiangular.

From a point O without a circle a secant OPQ and a tangent OR are drawn. Prove that the triangles OPR, OQR are equiangular, and hence that  $OP,OQ = OR^2$ .

#### HISTORY.

# [Answers to Parts I and II to be written in separate Answer Books, marked I and II respectively.]

#### PART I.

1. 'With the decline of the power of the Empire troubles came upon Britain, as upon all the other Roman provinces.' Give a brief account of the English conquests of Britain up to 577 A.D. Illustrate your answer by a sketch-map.

2. Write short notes on the following:—the Conquest of Wales by Edward I, John Wycliffe, the Puritans, the

Restoration.

3. When, and under what circumstances, were (a) Scotland, (b) Ireland, respectively united to the English throne?

- 4. In what way was England concerned with the war of Spanish succession, and what were the results of that war for England?
- 5. When, and in what way, did (a) Canada, (b) Australia become parts of the British Empire?

#### PART II.

6. Who was Fa Hian? What do we learn from his writings concerning the manners and customs of India in his time?

7. State briefly what you know of Harshvardhan,

Balban, Sher Shah, Lord Clive. Give dates in each case.

8. Give a short account of the chief events of the reign

of Jehangir.

9. Give some account of the extent of the Mogul Empire under Aurungzebe. Illustrate your answer by a sketchmap.

10. What circumstances led to the passing of the 'Regulating Act?' What was its object, and how did it fail as

an instrument of Government?

#### ARABIC. First Paper.

1. Rewrite the following with full vowel-marks:-- ثم ان نعما اعطت العود اسيدها نعمة ـ و قالت له غن

لنا شعرا - فاخذه و اصلحه و اطرب بالنَّمْهات ثم انشد هذه

البدر يحكيك لولا انها كلف و الشهس تنكسف و الشهس مثلك لولا الشهس تنكسف اني عجبت و كم في الحب من عجب فيه الهموم و فيه الوجد و الكلف اري الطريق قريبا عين اسلكسه اله الحديب بعيادا هين انصون الهي الحديب بعيادا هين انصون

2. Explain the allusions contained in the following:

(a) فكّان موسي قد أعير للأسده الوسي قد التي يعقوبا او ثوب يوسف قد التي يعقوبا فان تفخر بحبزة هين ولي مع الشهداء معتسبا شهيدا فانا قدد قتلندا يدوم بدر ابا جَهل و عُتَبِية و الوليدا

3. Name the author of the extract (b) above, and write shortly what you know of him in English.

4. Explain the grammatical reference in the following story:—

جاء نصوب على باب نصوي فدن بابه فقال من أنت - فقال الزائر احدث - فقال فقال الزائر احدث - فقال

إحددُ الاينصرف - فاجاب إذا كان نَكَرَةً ينصركُ

5. Give the syntactical construction (ترکیب) of the following sentences:—

- طَرِبَ طَرِباً عَظَيْماً - فَأَنْشُدَتُ هَٰذِينِ الدِيتينِ

إِنَّ الهِكَارِمُ اخْلاَقُ مُطَهِّرَةٌ - شُوالرِجِالِ الغَادُر

6. (a) Give the original form and the literal sense of the word ستي used in addressing a lady.

- تنکُرُف - اعُطُتُ of مان and باب-صیغه اعْطَتُ and مان مان and باب-صیغه

7. 'Give singular or plural (as the case may be) of:—

بدر - ههوم - طریق - حبیب - شهداء - أم - معاصي 
یوم - لسان -

8. Explain the following grammatical terms and give an example of each:— خبر – منادی – معطوف – علیه – مضاف

# SECOND PAPER.

Translate into English:

(n) قال النبي صلي الله عليه وسلم - ايّاكم والكذب - فان الكذب (falsehood) يهدي الي الفجور (crimes) و عليكم بالصدق - فان الصدق يهدي الي البر (virtue) و البّر يهدى الى الجنة '

(friend) قال بعضُ المحكهاء من قل صدقه قل صديقه (friend) وقال بعضهم لوصُّور الصدق لكان اسدا (lion) ولوصُور الكذب لكان ثعلبا (fox)

(٥) اخبر السقطي فال دخلت الهقابر - فرأيتُ بهلُولَ الهجنونَ قد ادلي (lowered down) رجليه في قبر محفور

البجنون قد اداي (lowered down) رجليه في قبر محفور (dug up) و هو يلعب بالتراب - فقلت ما تصنع لهمنا ؟ فقال انا عند قوم لايزنون جيرانهم (their neighbours) و ان غبت

انا عند قوم لايزنون جيرانهم (their neighbours) و ان غبث عنهم لايغتابوني (they will not slander me) \* عنهم لايغتابوني (d) قيل إنّ بعض الحكماء لزم باب كسري في حاجة

دهرا فام ياتفت اليه - فكتب أربعة اسطرفي رقعة - و دفعها للحاجب \* فكان السطر الاول: "الضرورة و الامل (hope) اقدماني اليك " \*

والسطر الثاني: "العديم (panper) الايكون معه الصبر عن البطالبة " \* والسطر الثالث: "الانصرات من غير فائدة شهاتة الاعداء " \*

و السطر الرابع: آمّاً نَعُمْ فَهُثُهُرةٌ (bears fruit) و آمّاً لأمريحة (relieves) " \* لأمريحة (relieves) " \*

(e) دخل لص دار مالک بن دیدار في اللیل - قطاف بها - فلم يجه فيها شيئا - فلما هم بالخروج - رفع مالک رأسه - و قال ياهذا طلبت الدنيا فما وجدتها عندنا - فهل لک آن تقبل (attend) على الآخرة ؟ فقال اللص فعم -

ثم تقدم الى مالك - فتاب على يديه - فلما طلح الفجرُ -

اخذه مالکُ - و مضيبه الي البسجه - فلها رآه التلامذة - قالواللشيخ من هذا الرجلُ ؟ فقال هذا اص - جاء ليصيدنا (to catch us) فصدناه - فصار ذاك اللص من كبار الاولياء عن (f) قيل لها هرب موسي بن عهران من فرعون - و بلغ ارض مُدين - اخذُته التُحلى - و قد اصابه الجوع بعد ذلك - فشكي الي ربه - فقال ياربِ انا الغريب وانا الهريض - وانا الفقيو - فاوحي الله تعالي اليه - اَما تعرف من الغريب و ومن الفقير ؟ الغريب هوالذي ليس له مثلي حبيب - والهريض الذي ليس له مثلي حبيب - والهريض الذي ليس له مثلي حبيب - والهريض الذي ليس له مثلي طبيب -

#### THIRD PAPER.

- 1. Translate the following into Arabie and give discritical marks very carefully:—
  - (1) I slept the whole night with my little baby.

(2) After the death of my father I went to Mecca.

(3) I am twelve years old, but my sister is three years old.

(4) All praise is due to God who is very great.

(5) She went to see her sick mother.

(6) He wished he could read and write Arabic.

(7) Obey your King.

(8) We travelled from Egypt to Madina.

(9) Certainly Abu Bakar is standing.

(10) By God, Mohammad is learned.

(11) She will certainly go to the house of her father.

(12) They will never drink wine.

- (13) Doth makes no delay.
- (14) A servant told his master that his ass was stolen.

(15) The money is in the purse.

- (16) He (God) will pardon your sins.
- (17) The poor man became rich.

- (18) Hamid went from one city to another.
- (19) God is great. He created us.
- (20) Mohammad is the Prophet of God.
- (21) Open the door of your house.

- (22) The day of the Examination is near.
  (23) Wash your face, your hands, and your feet.
  (24) You will certainly not see me.
  (25) If you strike, I will strike.
  (26) If she will walk to the mosque, I will also walk to the mosque.
- (27) God took away their light.
- (28) I wrote with a pen.
- (29) By God, Ahmad is not standing.
- (30) I believed that God was merciful.

## PERSIAN WITH ARABIC.

#### FIRST PAPER.

- 1. In the following extracts distinguish from each other the Arabic and the Persian words, and refer these extracts to their authors:-
- (a) تلهیزیارادت عاشق بے زرست۔و روندہ بے معرفت مرغ ہے پر۔ و عالم ہے عمل درخت ہے بر۔و زاهد یے علم خانہ نے در۔ مراد از نزول قران تحصیل سیرت خوب ست نه ترتیل سورت مکتوب ـ عامی متعبد پیادی رفته است-و عالم متهاون سوار خفته \*
- (b) نابینائے درشب تاریک چراغی بدست و سبوئے بر دوش در راهے میرفت ـ فضولی در راه باو دو چار شد و گفت اے نادان روز و شب پیش تو یکسان است و روشنی و تاریکی در چشم تو برابر - این چراغ را فائده چیست - نابینا بخندید و گفت - این چراغ از بهر خود نیست - از برائے چونتو کور دل ہے خبر است ۔ تابا من پہلونزنی و سبويم نشكني \*

2. Paraphrase in Persian the following:-

(a) بیر داس را که در ایام پدرم خطاب رائے رایان یافته بود راجه بکرماجیت که از راجه هائے معتبر هندوستان بودو رصد نجوم هند درعهد او بسته شده است خطاب داده میر آتش خود ساختم - و حکم کردم که همیشه در توپخی و سه هزار توپخی و سه هزار ارابهٔ توپ مستعد و آماده سرانجام نهاید - بکرماجیت مذکور از طائفه کهتریان است در خدمت پدر من از مشرفی فیلخاند بدیوانی و مرتبهٔ امرائی رسید «

(۱) از دیر باز مسبوع می شود که در معالات تیول شها ظلم صریع بعهل می آید - مظلومی بیچاره که تابوالی نرسد و او رفع مظلمه از سر آن نکند مظلمه در دیوان قضا بنام والی عامل بنویسند - بخشی دوم را این قدر اختیار دادن و آعتبار افزودن که دیگریرا در کار او مجال عرض نه باشد چه معنی دارد - اگرچه استقلال آدم کار هر قدر باید افزود بجاست - فاما فاعل مختار ساختن و بجزیات ساختهٔ او نه دداخت معفی بعجا «

ساختهٔ آو نه پرداختن معض بیجا «

3. Render the following in your own Persian prose :-

بهترون کرخی یکی داد پند که بارشته انبان جو را به بند که حالی بر آینده موران زخاک نهایند انبانت از دانه پاک بر آشفت معرون فرخنده خوی کزین گونه ناسخته دیگر مگوی به پرور ضعیفان رنجور را چه بندی ره روزی مسور را چهرا دانه از مسور داری دریخ نداری مگررشرم از ابرو میخ

# نداري باين حسرس و بخل قوي كه فردا تو خود رزق موران شوي

4. Carefully explain the following in your own Persian prose:—

این چه شوریست که در دور قدر سی بینم
همده آفداق پدر از فتندهٔ و شرسی بیندم
هدر کسی روز بهی میطلبدد از ایدام
مشکل این ست که هدر روز بترمی بیندم
ابلهدان را ههده شربت زگلاب و قندست
قدوت داندا همه از خدون جگر می بیندم
اسپ تازی شده معدروج بریدر پالان
طدوق زرین ههده در گردن خرمی بیندم
طدوق زرین ههده در گردن خرمی بیندم
دختران را همه جنگ است و جدل با مادر

- غمال فاقصه and their government with examples.
- 6. Give the exact force of the suffixes in the following words, with examples:—

دانشهند - ستهگار - کهترین - شاخسار - کارزار - شاخسار - کارزار - شاخسان - خداوند - خاکسار - شاخسان - خرداند - شاخسان - خودان - خودان - مرغزار \*

- 7. Explain the government of الله على على and of with some examples of each.
- 8. How does مستقبل differ from أمستقبل ? Illustrate your answer with examples.

#### SECOND PAPER:

# I. Translate the following into English :-

A

آورده اند که سپاه دشهن بسیار بود و اینان اندک و جهاعتے آهنگ گریز کردند پسر نعره بزد و گفت د ای مردان بکوشید تا جامهٔ زنان نپوشید سواران را بگفتن او تهور زیاده گشت و بیکبار حهله کردند شنیدم که همدران روز بر دشهن ظفر یافتند پدر سرو چشهش ببوسید و در کنار گرفت و هر روز نظر بیش کرد تا ولی عهد خویش کرد و برادران حسد بردند و زهر در طعامش کردند و خواهرش از غرفه بدید و دریچه برهم زد و پسر دریافت دست از طعام باز کشید و دریچه برهم زد و پسر دریافت دست از طعام باز کشید و گفت - محالست که هنرمندان بهیرند و یه هنران جال ایشان گیرند -

پدر را ازین حال آگهی دادند برادرانش را بخواند - و گوشهال بواجب داد - پس هر یکے را از اطرات بلاد حصة مرضی معین کرد تا فتنه فرو نشست و نزاع بر خاست - که دی درویش در گلیمی بخسپند - و دو پادشای در اقلیمی نگنجند \*

В.

یکے را از ملوک مدت عبر سپری شد و قائم مقامے نداشت و صیت کرد که بامدادان نخستین کسیکه از در شهر در آید تاج شاهی بر سروے نہید و تفویض مہلکت بوے کنید - اتفاقاً اول کسیکه در آمد گدائے بود مهم عبر او لقبه اندوخته و رقعه بر رقعه دوخته - ارکان دولت و عیان حضرت وصیت ملک بجا آوردند و تسلیم مفاتیم قلاع وخزائن بدو کردند - و مدتے ملک راند - تا بعضے امراے دولت گردن از اطاعت او به پیچانیدند - و بعضے امراے دولت گردن از اطاعت او به پیچانیدند - و

ملوک از هر طرف بهنازعت برخاستن گرفتند و بهقاوست اشکر آراستند و فی الجهله سپاه و رعیت بهم بر آمدند و برخی طرف بلان از قبضهٔ تصرف او بدر رفت - درویش ازین واقعه خسته خاطر نے بود - تایکے از دوستان قدیمش که در حالت درویشی قرین او بود از سفر باز آمد و در چنان مرتبه دیدش - گفت منت خدا ے را عز وجل که گلت از خار برآمد - وبخت بلند رهبری کرد - و اقبال و سعادت داوری تابدین پایه رسیدی \*

گفت اے عزیز تعزیتم گوئی که جاے تھنیت نیست ۔ آنگه کو تو دیدی غم نانی داشتم و امروز غم جہانی \*

C.

دو امیر زاده در مصر بودند - یکے علم آموخت و دیگر

مال اندوخت - عاقبة الامر يكے علامه عصر گشت و آن ديگر عزيز مصر شد ـ پس اين توانگر بچشم حقارت در فقيه نظر كردے - و گفتي من بساطنت رسيدم و اين همچنان در مسكنت بهاند ـ گفت اے برادر شكر نعمت باري عز اسمه همچنان بر من افزون ترست كه ميراث پيغمبران يافتم يعنے عام ـ و ترا ميراث فرعون و هامان رسيد يعني ملك مصر \*

ח

بازرگانے را هزار دینار خسارت افتاد ۔ پسر را گفت نباید که با کسے ایں سخن درمیان نہی ۔ گفت اے پدر فرمان تراست نگویم - و لیکن باید که مرا بر فائدہ ایں مطلع گردانی که مصلحت در نہاں داشتن چیست ؟ گفت

قا مصیبت قو نشون یکے نقصان مایه دوم شهاتت ههسایه \* E

مردم آزارے را حکایت کنند که سنگی بر سر صالحی زد-درویش را مجال انتقام نبود۔ سنگ را نگام سیداشت ۔ تا زمانیکه ملک را بران لشکری خشم آمد و در چام کرد۔ درویش اندر آمد و سنگ بر سرش کوفت۔ گفتا تو کیستی ؟ و ایں سنگ چرا زدی ؟ گفت من فلانم۔ و ایں هماں سنگ است که در فلان تاریخ بر سر من زدی ۔ گفت چندیں روزار کجا بودی ؟ گفت از جاشت اندیشه میکردم ۔ اکنوں که در چاهت دیدم فرصت غنیمت دانستم «

#### THIRD PAPER.

#### 1. Translate into Persian :-

- (a) Newton was a very good-natured man. Though he was so learned, he had no pride, and his disposition was so gentle that he never grew angry. He had a favourite little dog. One night Newton had gone out somewhere, leaving a candle burning on the table in his room; and meanwhile the dog for some reason or other, jumped on the table, overturned the candle, and set fire to the papers which Newton had been occupied in writing for years, reducing them to ashes. When Newton returned and saw what had happened, he was very much grieved, but he did not get angry and beat the dog. He only said quietly, "Dog! Little dost thou know what harm thou hast done me!"
- (b) There was once a poor man named Abdulla who had six sons. The maintenance of his family was a matter of great anxiety to him, all the more so because there was great searcity of corn in that year. Abdulla worked very hard, yet could not earn enough even to supply his children with the coarsest food, and consequently he was in sore trouble. One day he called all his children around him and said to them with tears, "My dear children, food is very dear this year. You see that with all my labour we only get a single cake of bread. I know that this will not satisfy your hunger, but it will help to keep you alive." The poor man could say no more, but looking up to Heaven began to weep, saying, "O God! Thou art the preserver of the poor, we are poor and unhappy. Have mercy upon my poor children. Help me, and do not let them die of hunger." Abdulla divided the cake into

seven pieces, and distributed them among his children, keeping the smallest piece for himself.

(c) Perhaps no work in Persian literature deserves more careful study than the writings of Hafiz. In addition to the literary beauties they contain, we find illustrations of the manners and customs of an intelligent and refined people. One who understands Hafiz can never put down the book without having received real pleasure. The verse of Hafiz is described as "rich in fancy, powerful in imagination, original, sublime, and glowing, grave and gay." By a careful study of his productions one easily sees that either he was not acquainted with the works of his contemporaries or he hated to introduce any of their opinions into his own writing. His fame to a great extent rests upon his creative imagination and upon the easy flow of his numbers. Hafiz, it is generally claimed, never borrowed ideas, and was a poet of an order essentially his own.

# SANSKRIT.

#### FIRST PAPER.

1: Translate into English:

श्रय प्रभातकाले चेत्रपतिलंगुडहस्तस्तं प्रदेशमागच्छन् काकेनावलोकितः। श्रालोक्यच काकेनोक्तम्। मित्र त्वमा-स्मानं मृतवत्सद्ध्यं वातेनोद्दं पूर्णित्वा पादान् स्तक्षी-कृत्य तिष्ठ। श्रहं च तव चलुषो चङ्ग्वा विलिखामि। ततो यदाहं शब्दं करोमि तदा त्वमुत्थाय सत्वरं पलायिष्यमे। सनः चेत्रपतिना हर्षोत्पुल्ले।चनेनावले। कितस्तथा विधी मृगः। आः स्वयं मृतोऽयमित्युल्ला बन्धनान्मे।चियत्वा पाशं संव-रितं सयलो बभूव। ततः काकशब्दं श्रुत्वा मृगः सत्वरमृत्थाय पलायितः। तमृद्दिश्य तेन चेत्रपतिना चिप्तलगुडेन श्रगालो हतः॥

- (a) State the धातु and प्रत्यय in पनायिष्यसे and संवरितुम्....
- (b) Expound and name the samasas in the underlined words.

- ं (c) Decline युग्मत् and जन्मत् in all cases and genders.
  - 2. Write out in prose order:-

उपकारिणि विश्रव्धे श्रुद्धमती यः नमाचरित पापम् । तं जनसरत्यसम्धं भगवित वसुधे क्षयं वद्धि ॥ विद्यमाना गतिर्येषामन्यत्रापि सुखावहा । तेन पश्यित विद्वांसा देशभङ्कं अन्वस्यम् ॥ यः संमानं सदा धत्ते भृत्यानां कितिषाधिकम् । वित्ताभावेऽपि तं दूष्ट्वा ते त्यजन्ति न किहंचित् ॥ सिद्धं वा यदि वामिद्धं चित्तोत्साहो निवेद्येत् । प्रथमं सर्वजन्तूनां तत्प्राज्ञो वेत्ति नेतरः ॥

- (a) Parse the underlined words.
- (b) Decline उपकारिन् and विद्वन् in all cases.
- (c) State the rules of Sandhi in विनाभावेऽपि, मुखायहा, प्राचीवेर्त्ति and नेतर्:.
- 3. Write out the purport in English or Hindi:—

  गुणिगणागणनारम्मे न पतित कठिनी सुसंभ्रमाद्यस्य।

  तेनाम्बा यदि सुतिनी वद वन्ध्या कीटूणी भवति॥

  श्रधीधः पश्यतः कस्य महिमा नावजायते।

  उपर्युपरि पश्यन्तः सर्व एव दिग्दृति॥
- (a) State the roots of the underlined words and conjugate them in the preterite लिट.
  - (b) Decline ग्रघोध: and महिमन् in all cases.

यश्वावृणोत्यवितथेन कमणा ऋतं व्रुवनसृतं संवयच्छन्। तं वै मन्येत पितरं मातरं च तस्मै न द्र्ह्योत्कृतमस्य जानन्॥ श्रापनाशाय विबुधै: कर्त्तव्याः सुहदोमलाः। न तरत्यापदं कश्चिद्योऽत्र मित्रविवर्णितः।

- (a) Translate the above into English or Hindi.
- (b) State the roots in संप्रयच्छन् and নানি and conjugate them in the preterite লুভ
- (c) Re-write the first line of the extract (2), changing the passive into the active construction.

तां पुरीं स सहातेजा राजा दशर्यो महान्। शशास शमितामित्रो गद्यत्रागीव चन्द्रमाः॥

- (a) Write out the above extract in prose order.
  - (b) Decline तत्, महत् and चन्द्रमस् in all cases.
  - (c) Conjugate the root शास् in the preterite जुङ्

#### SECOND PAPER.

- 1. Translate into English:
- (a) न हि जात्ववमन्तव्यो मनुष्य इति भूमिप:।

  महती देवता ह्यो षा नरह पेगा तिष्ठति ॥ १ ॥

  स्नेहच्छेदेऽपि साधूनां गुगा नो यान्ति विक्रियाम्।

  भङ्गोऽपि हि मृगालानां मनुबन्धन्ति तन्तवः ॥ २ ॥

  ख्यातः सर्वरमानां हि लवगो रस उत्तमः।

  गृहीतं च बिना तेन व्यञ्जनं गोमयायते ॥ ३ ॥

  प्रतिपरिचयादवज्ञा सन्ततगमनादनाद्रो भवति।

  मलये भिद्धपुरंप्री चन्दनतहकाष्ठनिन्धनं कहते॥ ४ ॥
- (b) ग्रस्त्युक्जियिन्यां माधवी नाम किश्चिद्धिप्रः। तस्य पत्नी कदाचिन्जिबालकस्य रद्वार्थं ब्राह्मणमवस्थाप्य स्नानाय जलाशयं जगास । श्रथ ब्राह्मणोऽपि पुत्रनिर्विशेषं चिरकाल-पालितं नकुलं बालकरद्वार्थं व्यवस्थाप्य स्वयं राद्यः पावंगा-श्राद्धं गृहीतुं राजमन्दिरं गतः। ततस्तेन नकुलेन बालक-समीपमागळ्यन् कृष्णसर्पी दृष्टा व्यापादितः खणिष्ठतश्च।

सतोऽसी नकुलः स्वामिनमायान्तमवलोक्य रुधिरविलिप्त-मुखपादः सत्वरमुपगम्य तच्चरणयोर्लुलोठ। ततः म विप्रस्तया विधं तं द्रृष्ट्वा बालकोऽनेन खादित इत्यवधार्य नकुलं व्यापादितवान्। प्रनन्तरं यावदुपस्तत्यापत्यं पश्यति तावद्वा-लकः सुस्यः सर्पञ्च व्यापादितस्तिष्ठति । ततस्तमुपकारकं नकुलं निरीदय भावितचेताः स परं विपादमगगत्।

(c) पुरा किल जरत्काक्ष्तांम महातपाः कथिनमुनिवरी
ब्रह्मचर्ये स्थितोऽखिलं महीमग्रहलमटलेकदां महागर्तेऽवलम्बमानानधोमुखान् निजिपतृन् दूरृष्टाऽएच्छत् के भवन्तो
विषग्णमवदना एवमस्मिन्महागर्तेऽवलम्बन्त इति । पितरः
प्रोचुवयं ग्रांमितब्रता मुनयः । मन्ततिविच्छेदाद्तीव कष्टद्गां
प्राप्ताः सम्प्रत्यधःपतामः जरत्काक्ष्तांसेकोऽस्माकं वंशे वन्तते ।
किन्तु न स मूढः पुत्रोत्पादनाय दारान् गृहीतुं वाच्छतीति
भृगं विषीदामः । पितृणां तद्भचः श्रुत्वा दुःखसमाकुलचेता
जरत्काक्रस्तानभाषत । भवन्तो मे पितः । श्रहमेव स
जरत्काक्रयं भवन्तो निन्दन्ति ॥

#### THIRD PAPER.

Α.

#### Translate into Sanskrit:-

- (1) A soft answer turneth away wrath.
- (2) Rather death, than such an action.
- (3) He travelled for twenty miles.
- (4) The merchant was angry with his son.
- (5) What is the good of selling that field?
- (6) Ascertain whether he is in the house.
- (7) Those who seek wisdom will certainly find her.
- (8) I cannot do what you wish for ammy reasons.
- (9) If the boy had obeyed his master, this could not have happened.

(10) When the elephant falls into a pit, even the frog gives him a kick.

В.

Once upon a time there was a boy whose name was Gopāla, and he lived with his mother in a little cottage. They were very poor, and the old woman got her living by washing clothes for other people; but Gopāla was so lazy that he would do nothing at all. So they called him Lazy Gopāla. His mother could not get him to do anything for her, and at last told him, one Monday, that if he did not begin to work for his daily food, she would turn him out to get him living as best he could.

#### URDU.

#### FIRST PAPER.

1. Explain any two of the following passages, paying special attention to allusions and to quaint words and expressions:—

(a) بہار باغ میں کیا۔ اکیا کھ۔ الا رهی هے گل شگفتہ غنچ۔ قہ منقدار عند ایباں هے چہن میں کیجئے اشارہ جو سوے نخل خنا تو ساتھہ اشارہ کے اونگلی برنگ مرجاں هے چہن میں بات جو کیجئے تو منہہ سے پھول جھتیں اب اندنوں میں یہ فیض بہار بستاں هے زمیں پہ دانہ جو پھیکا تو گر کے نخل هوا نہو کی سعی سے صیاں سخت حیراں هے نہو کی سعی سے صیاں سخت حیراں هے کہے کابل میں آم کا پاوال میتا کیھے پروان چری نہیاں سکتا میچھلی جب چھوتتی هے پانی سے میچھلی جب چھوتتی هے پانی سے میچھلی جب چھوتتی هے پانی سے میپ هاتے۔ در دور هاتے۔ در دور اسہندار دور اسکار دور

اسكو جينے كا پهر نهيں مقدور گهرزے جب کهیت سے بچھڑتے هیں جان کے لااے اندکے پرتے هیں اس تیرہ شب میں شاعر روشن دماغ ھے بيتّها اندهيرے گهر مين جلائے چراغ هے توبا ہے اپنے سر کو گریباں میں تال کے اُرتا سگر فے کھواے هوے پر خیال کے لاتا کبیی فلک سے ھے تمارے اوتمار کمر جاتا زمیں کی ته میں هے پهر غوطه مار کو مضمون تازی گو کوئی اس آن مل گیا یوں خوش هے جیسے نقش سلیمان مل گیا سبدوا لكها كيا زرع امتثسال اسو دیکها که چاره غیر اطاعت نہیں سجھے مقطح میں آ پڑی ھے سخن گسترانہ بات مقصود اس سے قطع معبت نہیں معھے روے سخن کسی کے طرف یا هو تو روسیات سودا نہیں جذو نہیں وحشت نہیں مجھے قسمت بري سهي په طبيعت بری نهيں ھے شکر کی جگہ کہ شکایت نہیں مجھے

- 2. Give a short account of the authors of extracts (c) and (d) in the first question, and describe the occasion on which the poem from which the last extract is taken was composed.
- 3. Give the meaning of any three of the following couplets, and explain the allusions which occur in them:—
  - (a) جوش پر رحبت باري هے تعجب کیا هے چاہ بابل کا دهواں بھي جو بنے ابر کرم

(b) قم بان الله کہتی آئی گلش میں بہار جی اُتھے جو ھو گئے تھے مُردہ دل وقت خزاں (c) ماں باپ سے قسیت کے بگر جانیکو پونچھو یعقوب سے یوسف کے بچھر جانے کو پونچھو (d) رکھشک جے بڑے ھیں جین مت کے تھکے۔نے ھے ھے۔رتے کی اگے۔ پھے۔رتے شکے۔دو والے۔وں کا ھے اگے۔و پہے۔

4. Define and illustrate:--

مركب غير استزاجي - جهله - انشائيه - مفعول له معطوت - مسار اليه

" کلام کو رنگینی اور استعرا و تشبیه سے بلند کر فری کھانا آسان ہے مگر زبان اور روز سرا کے محاورہ میں صاف صاف مطلب اسطوح ادا کرنا جس سے سنے والے کے دل میں اثر ہو بہت مشکل ہے "

5. Explain the meaning of the above statement and give illustrations from the authors whom you have read.

#### SECOND PAPER.

1. Express any three of the following passages in simple Urdu, explaining the underlined words and phrases:—

الله على الله المحاليك دروازه هي رفيع اشان - بلند بنياد كم حس كي رفعت كي آگي آسيان بستي خاك سي كيتر اور حسن كي اوج آسهان موج كي سامني اوج ثابت و سياز

## حضيض زمين سے پست تر هے ،

(b) هر درخت اُسكا رشک قامت یار اور هر گل اُسكا غیرت گل رخسار اُسكے سبن کے آگے بناگوش یار خجل اور اُسكے بنفشه کے سامنے زاف خوباں منفدل \*

(c) زهے بلند پاید حصار کہ اگر آسمان اُسکم ایک برج کے کلس کی وسمت پیدا کرے کلام تفاخر کو اپنے سر پر گج رکھے اور اگر سپہر برین اسکے ایک کنگرہ کی رفعت بہم پھونچائے اپنے جامہ میں نہ سمائے – اندیشہ اُسکی بلندی دیوار کے اندازہ کرنے میں حیران اور عقل اُسکی وسعت کی تحقیق میں سر گردان – اسکی دیواریں آسمان کی پشتیبان اور اُسکی خندی غیرت محیط و عمان ﴿

(1) آج قلم کا درماغ پہولوں کی خوشبو سے معطر ہے ۔ کاغذ کا صفحہ آنکھہ کی سپیدی کی طرح منور ہے ۔ نظر کا قررا رک گل کے طور پر رنکین ہے ۔ نگام کا رشتہ گلدستہ کے مانند بہاریں ہے کسواسطے کہ مجھے ایک باغ اور مکان کی صفت لکھنی منظور ہے \*\*

(ع) ایک خیالی مشفوق کی چالا میں برسوں دشت جنون کی وہ خاک اُڑائی که قیس و فرهان کو گرد کردیا ۔ کبھی ناله نیم شبی سے ربح مسکون کو هلا تالا ۔ کبھی چشم دریا بار سے تہام عالم کو تبو دیا ۔ آلا و فغاں کے شور سے کرویلوں کے کان بہرے هوگئے \*

2. Give an account of the life of the poet Mir (مير), and

quote verses to prove that his superiority is admitted by the succeeding Urdu poets.

3. Explain the meaning and the usage of the following idioms:—

- 4. Explain the use of the following expressions:

  آفت کا پرکالا چراغ سحري ستره بهتره -
- 5. Write an essay, two pages long at the least, in Urdu, on perseverance ( استقلال ).
- 6. Say whether the following words are used as masculine or feminine in the Urdu language, and give the general rule for determining the gender:—

- 7. Give the plural and meanings of:—
  کاغذ حکم حاضر ـ صدا ولئ معامله
- 8. What words are used redundantly ( تابع مهمل ) with the following words:—

9. Analyse the following verse according to Urdu grammar:—

آڑے وقت تم دائیں بائیں نه جهانگو سادا اپنی گاڑی کے وگر آپ هانکو

#### HINDI.

#### FIRST PAPER.

- 1. Explain fully the following extracts in Hindi :-
  - (1) हंमंबंस द्सर्य जनक राम लपन से भाषा। जननी लूँ जननी भई विधिसनक्षुन बसापा।
  - (2) कारन तें फारज कठिन हो इ दोप नहिं मोर। कुलिस श्रिक्तिं चपलतें लोह कराल कठोर॥
  - (3) श्राह्म साँगर सांतरम पूर्न पायन पाय। सैन समहुँ कर्तना सरित लिये नाहिँ रघुनाय॥
  - (4) मुख्या मुख्यो खाहिये खान पान कहेँ एक। पालइ पीयइ मकल फ्रॅंग तुलसी खहित बियेक॥
  - (5) सानुज चीय समेत प्रभु राजत परन कुटीर। भगलिखान वैराग जनु भोहत घरे जरीर॥
  - (6) नित पूजत प्रभु पाँचरी प्रीति न इदय समानि। सांगियांगि प्रायस करत राज काज यह माँति।
- (<sup>7)</sup> प्रयासल गीरिकिणोर बर खुंदर खुखना ऐन। खरद शबंरी नाथ सुख शरद सरीरुष्ट मेन॥
  - (8) पिता जनक सूपाल मिन मुझर भानु कुछ भानु। प्रतिरविकुल कैरवदिपिस विधु गुन रूप निधानु॥
- (a) Give the original forms of—बंध, लपन, कारज, दोय, परम, विवेक, जिसीर, ऐन, नैन and शरद।
  - 2. Render the following into plain (Hindi) prose:
    - (1) शुर गन-सहित समय सुर राजू। स्रोपहिं चाएत होन प्रकानू॥

बनत उपाउ करत कबु नाहीं। रामसरन सर्व गे सनमाष्टी॥ बहुरि विचारि परसपर सहहीं। रघुपति भगत-भगति-बस श्रह्हीं॥ श्रुचि करि अंबरीय दुरबाशा। मे खुर खुरपति निपट निरासा ॥ षहे सुरन्ह वहु काल बिबादा । नरहृरि किये प्रगट प्रह्लादा ॥ क्ति कि कान कहा हिँ धुनि नाया। स्रकाण सरघ के एाया॥ चपाच न देखिय ख-सेवन-सेवा ॥ रास ं इिय सप्रेम सुनिर्ह्य चंद्र भरतहि । निज-गुन-चील रामबस करतिहिं॥

स्रात स्राप्त स्राप्त कहेर भल तुम्हार बड़ भाग। स्रकल स्र-संगत्त-मूल जग भरत-प्रदन-छनुराग॥

- (a) Parse—गे, भे, बिचारि, सहे, भरतहिं and खुनि ।
- (b) Expound the compounds in the preceding extracts: explain the historical allusions contained in lines 4 and 5.
  - 3. Translate the following into English:—

छुनि सनेह्नय पुरजन बानी।
निद्धिं जोग बिरित सुनि जानी॥
एहि बिधि नित्य करम करि पुरजन।
रामहिं करिं जनाम पुलकि तन॥
जाव नीच मध्यल गरनारी।
जाहिं दरस निवानिक अनुहारी॥

सावधान सबही सनमानहिं।
सज़ल तराहत कृपा-निधानहिं॥
लिरकाइहि तें रघुवरवानी।
पालत नीति प्रीति पहिषानी॥
चील-वँकोष-सिंधु रघुराकः।
छुख छलोषन सरल छुमाकः॥
पाहत राम-गुन-गन प्रमुराने।
यव निज भाग सराहन लागे॥
एम सप पुन्यपुंग जग घोरे।
जिल्हाहिं राम जानत करि मोरे॥

म्रेन नगनः तेहि जनय सब सकल खनंगल-मृत्। सहितसभा संश्रमः चठेच रिब-क्ल-कमल-दिनेख ॥

- (a) Explain the use of the affix 'मय' in चनेहमय, दें in जानी and हिं in रामहिं and करहिं।
- (b) Give the synonyms of—विरति, पुलकि, श्रनुहारी, सराहत, नीति, सील, श्रनुरागे, प्रेममगन, and संभ्रम।
- 4. Explain clearly:-
  - (a) भरत-राम-चंदाद जुनि सक्तल सुमंगल-मृल। छख स्टारघी चराहिकुल वरपत सुरतर-फूल॥
  - (b) ग्राजिगुस-तिय-गासी नहुष चढ़े उभू मि-सुर-जान। सोक बेद तें विसुख भा प्रथम न वेन समान॥
  - (c) जब तें जुसित कुसित जिय ठयज । खंड खंड हो ए हृद्य न गयज ॥ बर सांगत सन भइ नहिं पीरा। गरि न जी ए मुंह परेउन की रा॥

(d) जीगवहिं प्रभु तियलवनहिं कैसे। पलक बिलोचन गोलक जैसे। सेवहिं लवन सीय रघुबीरहिं। जिमि अविवेकी पुरुष शरीरहिं॥

#### SECOND PAPER.

- 1. Why is the drama Mudrārākshasa so called? Name the important event which served as the turning-point in the fortunes of the contending parties.
  - 2. Explain fully the following extracts in Hindi:-
- (a) अनेक राजाओं के सुकुटमाणिका से सर्वदा जिनके पद्तल लाल रहते हैं उन महाराज चन्द्रगुप्त ने आपके चरणों में दंडवत करके निवेदन किया है कि यदि आपके किसी कार्य में विष्न न पड़े तो में आपका दर्शन किया चाहता हूं॥
  - (b) सकल कुसुमरस पान करि, सधुप रसिक-सिर ताज। जो सधु त्यागत ताहि लै, होत सबै जग काज॥
- (c) बात यह है कि अर्घशास्त्र वालों की मिनता और शत्रुता अर्थ ही के अनुसार होती है, साधारण लोगों की सांति इच्छानुसार नहीं होती। उस समय सर्वार्थिसिहि की राज्ञस राजा बनाना चाहता था तब देव पर्वतेश्वर ही इस कार्य से कंटक थेती उस कार्य की सिहि के हेतु यदि राज्ञस ने ऐसा किया तो जुछ दोष नहीं॥
- (d) महाराज आप नहीं जानते कि अनुचित सत्कार अनादर से भी विशेष दुःख का कारण होता है इससे में एथ्वी ही पर बेठ्ंगा॥

- (e) बग ज्या कर लें, छनेक उपायों से तो बह छाती में गई कांटे की भांति निकाल कर दूर किया गया है, उसे दूर करने में ग्रीर कुछ प्रयोजन ही या॥
- 3. Write sentences to illustrate fully the uses of the following idioms:—

काम में चूर होना, ढंग गमाना, फूटफार बताना, बालू की भीत, पीछे पहना, काम आना, अशृन्य करना, सांप तो सिर पर ब्टो पहाड़ पर, दाल में काला ॥

4. Translate the following extract into English:-

तब चारों श्रीर से कुसुसनगर घेर लिया श्रीर नगर-बासी विचारे भीतर ही भीतर धीरे धीरे घवड़ा गए। उनकी उदासी देख कर सुरंग के मार्ग से गवांघीमिद्धि नपी-वन की चला गया श्रीर स्वामी के विराह से श्रापके मब लीग सिथिल हो गए। तब श्रपने जय की होंड़ी सब नगर में शत्रु लोगों ने फिरवा दी श्रीर श्रापके भेजे हुए लोग सुरंग में इधर उधर हिए गए श्रीर जिम विपक्षन्या की श्रापने चन्द्रगुप्त के नाश हेतु भेजा था उससे तपस्व पर्वतेश्वर मारा गया।

- (a) Write grammatical notes on बिवारे, धीरे धीरे, नाशहेतु in the above extract.
  - (b) Write what you understand by विवक्तन्य ।
- 5. Give the meanings of the following words in both Hindi and English:—

प्रतिहारी, फ्रार्य, रहस्य, उत्कंठा, दाँवघात, कृतझ अनुयायी, अनुग्रह, सञ्चरित्र, भदन्त ॥

6. Translate the following in current Hindi :-

The Tartar princes and princesses, from whom sprang the proud Lion of the Moghuls, were wont in their lifetime to choose

a piece of ground, to enclose it with high walls, embellish its precincts with flower-beds and groves of shady trees, and to build up it a Bārā-dari, a twelve-gated pleasure-house, where they took delight during the founder's life. When he died, the pavilion became a mausoleum and never again echoed with song and Perhaps the fair daughter of Asuf Khan, Shah Jahan's Sultānā, had loved this very garden in her life, for her remains were laid at death in its confines, while the Emperor commissioned the best artificers of his time to build a resting-place for her dust worthy of the graces of mind and body which are recorded in the Persian verse upon her grave.

#### AGRICULTURE.

- 1. What food substances are obtained by the plant-
  - (1) from the air;
  - (2) from the soil?

Write a short note on the functions of—

- (a) roots;
  (b) leaves;

with regard to food-supply.

- What are alluvial soils? Explain their formation. 2.
- 3. What aré—
  - (a) the good,
  - (b) the bad,

points of clay soils?

- What is "green manuring?" How is it done? What are its advantages?
- Describe the methods of raising water for irrigation in any district you know.
  - 6. What are the advantages of a rotation of crops?
- What is meant by "in-and-in" breeding? Describe its advantages and disadvantages.
- 8. What precautions should be taken with milk in order to obtain a wholesome product?

#### GEOMETRICAL DRAWING.

- I. Draw a straight line AB, 34 inches long. At a point C, 17 inches from B, erect a prependicular CD, 2.25 inches long. Draw a circle, radius 98 mehes, to touch CD and CA.
- 2. Construct a regular pentagon having each side 1.67 inches long. In the pentagon inscribe a square.
- 3. Within a circle, 1:36 inches radius, inscribe three equal circles, each touching the other two and the circumference of the first circle.
- 4. Construct the figure ABCDE from the following data:—

AB 1.75 inches BU 2.2 " AD 1.6 ", Angle ABC 120° " BAD 105" " ADE 120° " BCE 90°

5. Two towns 237 miles apart are 3:15 inches distant from one another on the map. Construct a plain scale to show tens of miles. Draw a line 140 miles in length.

N.B.—Figure and chead the scale properly, showing the representative fraction.

#### GEOGRAPHY

[Answers to Parts I and II to be written in separate books, nearhol I and II respectively.]

#### Part 1.

1. What is the shape of the earth? Name the different gones of climate into which the surface of the earth is divided, and state the extent of each in degrees? By what lines are the romes separated?

2. What is meant by the latitude and longitude of a place?

How can the longitude of any place be ascertained ?

3. What are igneous, metamorphic, and sedimentary rocks? Explain how springs are formed?

4. Draw a map of the Mediterranean Sea, naming the countries that border on it and the bays, gulfs, straits, and islands ly-

ing in it.

5. What are the following, and where are they situated:—Trinidad, Gibraltar, The Mauritius, Valparaiso, Vancouver, Mesopotamia, Brest, Waterloo, the Andes, Glasgow, Kiel, The Dardanelles, Cork, Tabriz, Belgrade?

#### PART II.

6. Name the different provinces into which British India is divided, giving the chief town and the designation of the ruler of each.

7. Describe the geographical situation, size, boundaries and relief of the Punjab. Name the principal rivers flowing through

it, and eight of the chief towns in it.

8. Describe the position of the following towns and mention anything of interest connected with them:—Cuttack, Attock, Cherapungi, Moulmein, Roorkee, Jaipur, Kamptee, Belgaum, Calicut, Aurangabad, Bangalore, Port Blair, Galle, Mhow, Darjeeling.

9. What are the principal mineral products of Iudia, and where are they found? What are the principal timber trees and

food crops?

10. Explain why the rainfall of Bengal is greater than that of Sind.

#### PHYSICS.

1. Indicate any method of finding the diameter of a sphere.

2. Prove that the rule for finding the volume of a rectangular box holds also when the lengths of the edges are expressed in cms. and decimals of a cm., e.g., when the lengths of three edges meeting in a point are 16.81 cms., 41.08 cms. and 12.70 cms., respectively.

3. Describe any method of finding the relative densities of two liquids. A U-tube of uniform bore, about half filled with water, is fixed in a vertical position and oil (density 0.8) is poured into one limb till the water rises four cms. in the other. What

mass of oil was poured into the tube?

4. What is meant by coefficient of expansion? A copper wire is found to be 0.034 cms. longer at 25°C. than it is at 5°C.; calculate accurately what its length would be at 0°C. (Coefficient of Exp. of Copper = 0.000017.)

5. What precautions have to be taken in determining the boiling-point of a liquid? Describe any method of determination.

6. Given a slab of glass with parallel faces and four pins, show-how you would use them to verify the law of the refraction of light passing from air to glass.

7. Draw the image of a pin inclined to the surface of a plane

mirror.

8. What is meant by magnetic force? Indicate the action of

the Earth's magnetism on a freely suspended bar magnet.

9. How would you show experimentally that there are two kinds of electrification and that equal quantities of each kind are produced when a body is electrified by friction?

#### CHEMISTRY.

1. Describe how you would determine the melting-point of sulphur. Write an account of the properties of sulphur. How can crystals of sulphur be obtained?

2. What is the meaning of 'relative density'? How can the

relative density of iron nails be determined?

3. What happens if you heat (a) nitre, (b) chalk, (c) blue

vitriol, (d) green vitriol, (e) lead in air, (1) magnesium in air?

4. What is combustion? Describe experiments which show that air contains at least two different gases.

5. How can you show that in rusting and burning an increase

in weight occurs?

What do you think is the use of blowing or fanning a fire to make it burn more quickly?

6. Describe a method for the preparation of oxygen, and give

an account of its properties.

7. What takes place when sodium is thrown upon water? How, can you tell whether the solution left behind is acid or alkaline?

How would you find out whether a given liquid was pure water

or not?

8. How would you prepare carbonic acid gas? If carbonic acid is passed into lime-water what happens?

9. How can you show that hydrogen burns in air to form water? What precautions have to be taken in this experiment?

N. B.—Draw diagrams where necessary. Special marks will be given for neat and clear diagrams.

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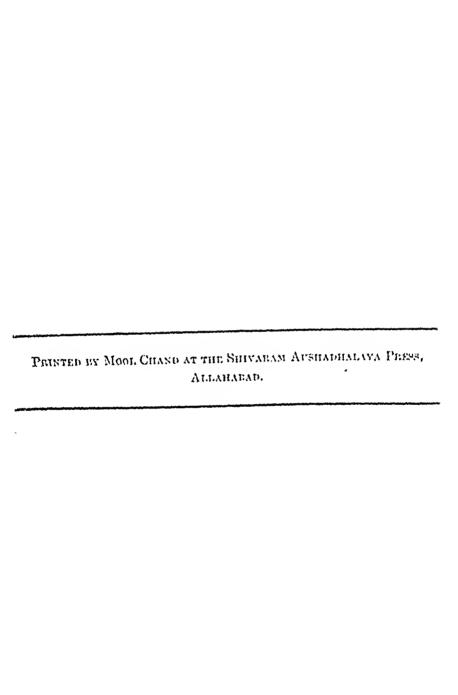
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#### ENGLISH.

A. H. Pirie, Esq., P. M. Wallace, Esq., B.A., Examiners.

I. "Life would be insupportable to an old man, who, loaded with infirmities, feared death no more than in the vigour of manhood: the numberless calamities of decaying nature, and the consciousness of surviving every pleasure, would at once induce him, with his own hand, to terminate the scene of misery; but happily the contempt of death forsakes him at a time when only it could be prejudicial; and life acquires an imaginary value, in proportion as its real value is no more."

(a) Re-write the above sentence, substituting simpler words or phrases explaining the meaning of those

italicized.

(b) Parse (1) in the vigour of manhood; (2) would induce; (3) only; and state the difference of meaning caused by placing only after could.

II. Explain:—

(a) Wherever you see a house with the doors open be very sure Fortune is not there.

(b) Far more levely is the sturdy gloom of laborious indigence than the fawning simper of adulation.

(c) A letter written from such a place as this is a

creation.

(d) The affairs of the Antediluvians lay in a narrower compass; their libraries were indifferently furnished; philosophical researches were carried on with much less industry and acuteness of penetration; and fiddles, perhaps, were not invented.

(e) The hook in the wing of a bat is a compensating contrivance.

(f) In whatever Station Horatio might be placed, he would climb if possible to the very top of the tree.

(g) Gold, in the figurative language of the people, was "the tears wept by the Sun."

III. (a) Beauty strength and youth, with old age, weakness and deformity, lay undistinguished in "the same promisenous heap of matter."

Point out the terms which are contrasted with each other, and give the meaning of the expression in italics.

(b) "It has been said that he who retires to solitude is either a beast or an angel. The censure is too severe, and the praise inmerited."

Explain which word is the censure and which word contains the praise.

(c) "Thus was a graminivorous animal nurtured by a

carnivorous and preduceous one."

Give the meaning of the words in italics, and state briefly the circumstance to which this refers.

(d) "Truth to say, he was a conscientious man that ever bore in mind the golden maxim, 'Spare the rod and spoil the child.' Ichabod Crane's scholars certainly were not spoiled."

Give the meaning of the words and expressions in italics.

IV. (a) "There is nothing truly valuable which can be purchased without pains and labour."

Re-write this sentence in the affirmative form.

(b) "Desert, you, Madam!" exclaimed Janet, "desert you!—may the Hope of my trust desert me when I do so!"

Express this speech in the indicative form; and give the meaning of the Hope of my trust.

(c) "Take away his pipe? You might as well take away his nose!"

Re-write this in one sentence, beginning "To take away his pipe, &c."

(d) "The Prince replied: If, my Lord, I am to make

all my brave officers Admirals, I should have no Captains or Lieutenants in my service.

Change this speech into the indirect form.

- V. Re-write in simple prose so as to explain the meaning:-
  - "My boast is not that I deduce my birth. From lions enthroned and rulers of the earth; But higher far my proud pretensions rise-The son of parents passed into the skies!"
  - "Sweet sleep that loves the cotter's hut. Beyond the Baron's hall, Sweet sleep that hears the peasant's prayer, Nor heeds the monarch's call."
- (a) Tell what is meant by rhyme; and write down in pairs the rhyming words in Question V.
  - (b) Give the meaning of iambus and anapæst; and correct the following verse:— "I am king of all I survey,

My right there is no one to dispute; From the centre all around to the sea,

I am master of the fowl and the brute.

- Explain :—
  - (a) "Flowers seem intended for the solace of ordinary humanity: children love them; quiet, contented, ordinary people love them as they grow; luxurious and disorderly people rejoice in them gathered; they are the cottager's treasures; and in the crowded town, mark, as with a little broken fragment of rainbow, the windows of the workers in whose hearts rests the covenant of peace."
  - (b) Trust me, Clara Vere de Vere, Form you blue heavens above us bent The gardener Adam and his wife Smile at the claims of long descent. Howe'er it be, it seems to me, "Tis only noble to be good; Kind hearts are more than coronets,

And simple faith than Norman blood.'

#### ENGLISH.

W. H. WRIGHT, Esq., B.A. Examiners. P. M. Wallace, Esq., B.A.

I. Classify "Nouns," giving three examples of each kind. Carefully show the three modes of denoting "Gender," with

examples.

II. Enumerate the different classes of "Pronouns," and write an original sentence (not taken form any book) to

illustrate the use of each kind of Pronoun.

III, What is meant by the following:—Cognate object; Dative of Interest; Strong and Weak verbs: Conjugation, Mood; Inflexion of verbs.

IV. Give a few general rules with illustrations, showing how to distinguish the words of classical origin, from those belonging originally to English.

V. Explain and illustrate:—Compound sentence. Elliptical sentence. Subordinate Tenses. Metaphor. Simile.

Purity of Style.

VI. Write an original sentence:—(not taken from any book) showing the usages of each of the following:—About. But only. But also. Since. Gang. Flock. Group. Fall in. Fall out. Take note. Dead. Still. Whether. Otherwise.

#### URDU.

Translate into English:-

هم لوگ اسکے قبل اُس کنارہ دریا تک پہنچ گئے تھے جہاں کھانا پک رھا تھا اور جو اُس دیوانہ ھاتھی کے محبس سے قریب تھا – اور اُس وقت نوکر چاکر قر کے مارے بد حواس اِدھرا دھو بھاگے جارھے تھے – یہہ عظیم الخلقت جانور بے انتھا ھوشیاری کے ساتھہ اُس کہونتی کے اُکھار قالنے کی کوشش بلیخ کر رھا تھا جس میں کہ وہ بند ھوا تھا – ارر آخر کاروہ اس میں کامیاب ھوا – اُسکے پھلے ھی زرر شور کے اُچھلنے میں وہ بھاری زنجیر جس سے اوسکے گھانے بندھے ھوئے تھے اور جسکا ایک حلقہ کسی قدر کہزور اور پورانا تھا بالکل توت گیا – اور اوسنے اِس حلت کسی قدر کہزور اور پورانا تھا بالکل توت گیا – اور اوسنے اِس حالت میں کہ ایک براسا کھونتا اوسکے پیچھے الماکا ھوا تھا

يكايك أس كهب برحهله كيا اوروه به أنتها سخت آواز سه خالت جنون میں چلایا اور گرجا - نیزہ برداروں کو اس حملہ کا گمان هي نه تها - ايک بيچاره اپنے چاول کي هانڌي پر جه کا هوا ادهه بجّهے کوئلوں کو سلگا رہا تھا کہ اس مجنوں جانورنے اُسکو اپنی لانبي اچکیلي سونڌ سے پکترابیا اور بجز آواز موتکے اوسکوکسي آور بات کا موقع ہي نہيں ملآ کہ اوسکے سر کو اُس ہاتھي تے اندے کے چھلکے کی طرح مصف پاش پاش کردالا۔ اسکے بعد یہ گھوروں کی طرف دورا جو کہ چاروں طرف کے غل و شور سے خود هي خادمت اور پر شورش هورهے تھے اور اپني اکاري پچهاري کي رسيوں کو کهينچ نير کر رهے ته-غرض اِسَ هاتهي نے ایک غریب قبولي گهوري کے پیت میں اپنا لانبا اور بے دھار کا دانت گرا دیا - گھوري نے هر چند بھاگنے کي کوشش کي مگو خکيهه نه بني \* HINDI. Translate into English:-हम नदी के किनारे गये जहां रसे ई हा रही थी। उस जगह के पास ही वह मस्त हाथी खूंटे में बंधा था। अब सब नीकर चाकर घबराए हुए इधर उधर आगने लगे। वह भारी जानवर बड़ी धूर्तता से ऋीर बड़े ज़ोर से खूंटे के उखाड़ने की के। शिश कर रहा था। अन्त में उसकी के। शिश सुफल हुई। उस ने बड़े ज़ोर के फटके से भारी जंजीर की जिसकी एक सींकड़ी चिस कर पतली हो गई थी तोड़ डाला। और खूंटे की चिमलाते हुए और चिघाड़ मार कर चिलाते हुए तस्बुओं की स्नार दौड़ा जो लोग बरका लिये खड़े थे उस हाथी के स्नाने तक नहीं हरे। एक शासूस जी चावल की हांड़ी पर मूक कर

श्राग बारने के लिये चूल्हा फूकता था उसकी हाथी ने अपने

लंबे सूड़ से पकड़ पाया ॥ शौर उसकी मौत की चिल्लाहट हमारे

कान तक पहुंच कर हम की भयचक नहीं करने पाई कि उम बेचारे का सिर उस मस्त जानबर के सख़त जान पर छंडे की नाई चक्तने चूर हो गया। किर हाथी घोड़ों पर दौड़ा। घोड़े पहले ही मारे हर के घबराये हुए ये छोर रस्सी तोड़ कर भागने की केशिश कर रहे थे। एक काबुली घोड़ा किसी तरह से रस्सी तोड़ कर भाग नहीं सका। उस के कांपते हुए पीठ पर हाथी ने छपने लंबे दांत के घुसेड़ दिया॥

ARITHMETIC AND ALGEBRA.

PANDIT LAKSHMI SHANKAR MISRA, M.A., Examiner.

1. Define a fraction and show that  $\frac{1}{2} = \frac{\pi}{6}$ . By how much does the difference of  $1_{\frac{1}{2}}$  and  $1_{\frac{1}{2}}$  fall short of their sum? Express the defect as a decimal.

2. (a) Simplify  $\frac{3\frac{1}{3}-1\frac{1}{2}}{(3\frac{1}{6}-1\frac{1}{6})} \frac{\text{of } 1\frac{1}{6}-1\frac{1}{7}}{\text{of } (1\frac{1}{6}-1\frac{1}{7})}$ 

(b) Subtract 03 from 03 and divide the result by 102

3. Find the square root of '001 to four places of decimals, What number has '1 for its square root?

4. What sum of money will amount to Rs. 1,381. 4 as, in

15 months at 5 per cent. per annum. simple interest?

5. How long will it take to walk along the four sides of a square field which contains 16 acres 401 square yards, at 3 miles an hour?

6. A and B complete a piece of work in S days; B and C do the same in 12 days; and A, and B, and C finish it in 6 days. In how many days will A and C complete the work?

7. Show that  $\bar{a}-(b-c)=a-b+c$ .

Remove the brackets from the expression

 $(x-a)(x-b)(x-c)-[bc(xa-)+\{(a+b+c)x-a(b+c)\}\ x]$ 

8. Find the Highest Common Divisor of  $x^3 - 8x^2 - 12x + 144$  and  $3x^2 - 16x - 112$ .

Find the Lowest Common Multiple of  $x^3 + a^3$ ,  $x^3 - a^3$ ,  $x^2 + ax + a^2$ , and  $x^2 + a^2$ .

9. Simplify

(a) 
$$42 \left\{ \frac{4x-3y}{6} - \frac{3x-4y}{7} \right\} - 56 \left\{ \frac{3x-2y}{7} - \frac{2x-3y}{8} \right\}$$

## (b) $\frac{a^4 - b^4}{a^2 + b^2 - 2ab} \cdot \frac{a - b}{a^2 + ab}$

- Solve the following equations:—
  (a)  $\frac{2(2x-1)}{9} \frac{3x-2}{13} = 1$ 
  - (a)  $\frac{9}{13} = 1$ (b) (a+b)x - (a-b)y = 3ab
- 11. If a:b::c:d prove that
- $a^2 + b^2 : a^2 b^2 : : c^2 + d^2 : c^2 d^2$ .

  12. A who travels  $3\frac{1}{2}$  miles an hour starts  $2\frac{1}{2}$  hours before

B who goes the same road at  $4\frac{1}{2}$  miles an hour; where will he overtake A?

GEOMETRY AND MENSURATION.

F. H. FIRTH, Esq.,
H. O. Budden, Esq.

\*\*Examiners.\*\*

- 1. Enunciate all the propositions of Euclid, Book I, in which the equality of three parts in a pair of traingles involves equality in all respects.
- 2. Construct a traingle, having given the base, one of the angles at the base, and the sum of the sides.

  3. To describe a parallelogram that shall be equal to a given traingle and have one of its angles equal to a given
- given traingle and have one of its angles equal to a given rectilineal angles,

  4. From a given point in one of the sides of a traingle,
- draw a straight line to meet the other side produced, so that the traingle thus formed, shall be equal to the given traingle.

  5. In every obtuse angled traingle, the square on the side subtending an acute angle, is less than the squares on the sides containing that angle, by twice the rectangle contained by either of these sides, and the straight line intercented between
- either of these sides, and the straight line intercepted between the perpendicular let fall on it from the opposite angle, and the acute angle.

  6. In any traingle the sum of the squarses on the two sides is equal to twice the square on half the base together
  - with twice the square on the straight line joining the vertex to the middle point of the base.

    7. (a) From a given circle to cut off a segment containing an angle equal to a given rectilineal angle.

- (b) Having given the base and the vertical angle of a traingle, show that the traingle is greatest when it is isosceles.
- 8. To inscribe an equilateral and equiangular pentagon in a given circle.
- 9. Find the cost of lining a rectangular cistern, 12 ft. 9 in. long. 8 ft. 3 in. broad, and 6 ft. 6 in. deep, with sheet lead weighing 8 lb. per sq. ft. and which cost £1. 8 s. per cwt.
  - 10. A tower, whith stands on a horizontal plane, subtends a certain angle at a point 160 feet from the foot of the tower. On advancing 100 feet towards it, the tower is found to subtend an angle twice as great as before. What is the height of the tower?

11. The sides of five sided figure ABCDE are AB=25 ft.; BC=29 ft., and CD=39 ft., DE=42., and EA=27 ft. Also

AC=36 ft., and CE=45 ft. Find its area.

12. Draw a plan, and find the area of a piece of land, from the following notes:—

0 72 0 38 Turn	⊙A 672 416 294 226 142 55 to the ⊙C	0 12 right.
0 - 60 0 30 Turn	⊙C 640 543 305 220 to the ⊙B	right.
From	⊙B 416 364 200 0 ⊙A	0 15 25 0 go N, E

#### ARABIC.

MAULVI SYED AMJAD ALI, M.A., Examiner.

I. Translate into English:

قيل كان في ايام سليمان رجل يقال له حزيمة بن بشرمن بني اسد كانت له مروة ظاهرة و نعمة حسنة و فضل وبر بالا خوان - فلم يزل على تلك الحالة حتى قعد بدا ازمان فاحتاج الي اخواندالذين كان يوا سيهم - فواسوه حينا - فلما لاح له تغيرهم اتي اسرا ته و كانت ابنة عمه - فقال لها يا ابنة عمي قد رايت من اخواني تغيرا - وقد عدمت على ان الزم بيتي إلى ان يا تيني المرت - فاغلق با به و اقام ينقرت بما عنده حتى نفد وبقى حائرا \*

II. Give the original forms of the following, in the above extract, with diacritical marks, i.e., عرزت و ساون

قيل - ايام - يقال - بني - مروة - لميزل - بر - الحالة -

احتاج - واسولا - لاح - اتني - عم - اقام - حادرا \*

III. Give the Urdu meanings of the following and supply their singulars or plurals as the case may be:—

طریق - افنان - ایوان - شهاع - دینار - مناطق - مولود - آبطال - سوق - جعائل \*

IV. Write idiomatic Urdu or English expressions for the following:—

سقط مغشيا عليه - دمعت عيناه - قرع الباب - غر غرت عيناه بالدموع - ابتدره الغلمان - اغمي عليه طويلا - جعل يحلف

ويلك - قاتلك الله - اقبلت اشق الصفوت - فتم الله علي \*

V. Explain the origin and use of the following proverbs and rewrite them with discritical marks:—

تسهيع بالهجيد مي خير من أن ترأة - لكل فرعون موسي \*

VI. Enumerate and give example of:-

(1) حروف الجر - (2) حروف نصب الفعل - (3) حروف الجزم \*

VII. Explain, as clearly as you can, the following

verses, naming the author and mentioning what you know about him, either in English or in Urdu:—

اذا ماالناس جربهم لبيب « فانّي قد اكلتهم وُدّاقًا فلم ارودهم الانفاقا فلم ارودهم الاخدا عا « وام ار دينهم الانفاقا

VIII. Explain allusions in the following and comment on the word عرش بلقیس هدهد و خرب فار قبل ذا سد مارب

IX. Translate the following verses into English:-

MAULVI STED AMJAD ALL, M.A., Examiner.

I. Translate into English:-

فهشينا إلى آخرا انهار - فدخل علينا الليل و نص على هذه الحالة - فنهذا قليلا - و استيقظنا من منا منا - و اذاً بثعبان عظيم قد احاط بنا و بلغ و احدا منا - فتعجبنا من ذلك غاية التعجب - و حزننا على رفيقنا - و صرنافي غاية الخوت على انفسنا - و قلنا والله هذا امر عجيب - ثم إننا قهنا فهشينا في الجزيرة - و اكلنا من ثهرها - و شربنا من انها رها - و ام نزل فيها إلى وقت المساء - فوجدنا شجرة عظيهة علية فطلعنا ها - و نبنا فوقها \*

مات سيف الدولة في سنة سبح و خمسين و ثلثمائة - و كان موته بعلب في عفر - و حمل تابوته إلى ميا فارقين

قدفن بها - و كان مولده في ذي الحجة سنة ثلث وثلثها تقد و هواول من ملك جلب من يني جهدان - اخذها من احبد بن سعيد الكلابي نائب الاخيشد - و كان سيف الدولة شجاعا كويها شاعرا - ولها تؤفي سيف الدولة ملك بلاده بعده ابنه - و في هذه السنة تؤفي ابوالفرج - قيل اند جهع كتاب الاغاني في خهسين سنة - و حهله إلى سيف الدولة فاعطاه الف دينار - و اعتذر إليه «

II. Translate into Arabic supplying diacritical marks very carefully:—

(1) Let no one who can write refuse to write; (2) I am afraid he will not leave me; (3) I journeyed till I entered it; (4) Is there a man in thy house? (5) There was a merchant and there were to him three sons and four daughters; (6) Man is compounded of soul and body; (7) He killed himself with his own hands; (8) Joseph (ورسف) came to me, I saw Joseph, and I passed by Joseph; (9) Noah (زري) called his Lord; (10) Lord! My son is in my family; (11) Verily Thy promise is true; (12) And Thou art the most merciful of all; (13) He said, O Noah! he is not in thy family; (14) He is an immoral fellow-; (15) Abraham was father of Ismael; (16) An Abraham came to me and spoke of another Abraham; (17) When Omar (30) comes to thee give him this book; (18) Amru () saw two men and three women; (19) These two men came from Mecca (کد): (20) I will certainly stick to thee until thou givest my due on thee; (21) All praise is due to God, the Lord of the whole world; (22) A ruler without Justice is like a river without water; (23) I have neither gold nor silver by me; (24) I wrote on paper with the reed pen; (25) Honour thy guest, whether he be rich or poor.

#### PERSIAN.

Shams-ul-ulama Maulvi Zaka-ullah, Khan Bahadur.

Maŭlvi Abdul Jalil. Munshi Ram Kishen.

T. Write out and translate literally any four prudential maxims (پندهای-سوامنای) of Sadi that you may remember. Translate the following phrases:—

كارها بصبر بر آيدو مستعجل بسر در أيد-احبد مجتبي-محمد مصطفي- صليالله عليه وسلم «

II. Translate the following passage into English; and explain in Persian allusion it contains:—

اکثر ارباب اخبار اِتفاق دارند که آن قدوهٔ احرار در مبدء حال در سلک مهالیک یکے از بنی اسرائیل اِنتظام داشته و در سبب آزادی او وجوم متعدد ثبت نهوده اند و اکثر آنها در ماثرالهلوک مرقوم کلک بیان گشته درین مقام خوفا علی التطویل بر ایراد یک روایت قناعت نهاید \*

III. Re-write the following passage in Persian, avoiding the use of Arabic words as far as possible:—

نخست مطابق قانون سلطنت كبري اسپان باد پا با ايراق مرصع و مينا وفيلان ناسي كوع پيكر با ساز هاے مكمل و مكلل و مرصع و مطلا از نظر انور ميگذرند بعد از آن شاهزاد هاے والا تبار درجه بدرجه در قرب سرير خلافت و مسند سلطنت إجازت نشستن دارند ع

IV. Explain in Urdu the purport of the following passages:—

(a) أردوے گیہاں پوے شہریست روان و ملکیست هہیشه آبادان – و کثرت هجوم آردوے جہاں پیما از ناطق و صامت بہرتبه میشود که پہلو به پہلو و دوش بدوش و پائے برپائے یک دیگر گذاشته میروند و ارباب حرفت و صنعت که وطن مالوقه انها اُردو بازار است و خانه بر دوش این طائفه است با احمال و اثقال و اهل و عیال بجعیت خاطر و فراغ بال با افسانه و ترانه طی منازل می نمایند و در کوچ و مقام باهم کد خدائیہا می کنندو توالد و تناسل پسرو دختر در آردو می شود و اطفال را در سبد انداخته و سبد را بر دوش گذاشته بهنزل می آرند حفظ اِلهی و عدالت شاهنشاهی شامل حال خلائق است بااین همدانبوهی وازد حام که از احاطة تصور بیرون خلائق است بااین همدانبوهی وازد حام که از احاطة تصور بیرون

میباشد طفل یک روز و پیر صد ساله از دست و پائے اسپو فیل سلامت میرود-مطربان و رقا صان بازیگران هردیار نغهه کنان ودن زنان می آیند و صدا ے جرس و زنگ و زنگوله و آواز مردم و شورو غوغاے انسان و حیوان بفر سنگها میرسد \*

(b) متهر جز طویله نباید جائے یا بگذارد غربیل نباید هر گز اطاق من بیفتد - امررز کریم مهتر غلبیر را دست گرفته اطاق من آمده غلبیرش را اینجا گذاشته رفته است غفلتاً گوشه کهانش پاگذاردم-گوشه دیگرش بلند شده چنان بزانو ام خرده که حالا هم از درد آن نهی توانم پایمرا حرکت بدهم\*

V. Explain the formation of the following words. Give examples of similar forms.

صامت - طائفه - مستعجل - اصوار - مبدء - منازل \*

VI. Explain the following extracts a, b, c, d, either in English or Persian:—

(م) الموي و در شيها ي آن زير دايم پرنيان آيد همي (م) مير مالا است وبخارلا آسمان مالا سو ي آسمان آيد همي (ه) Mention the various readings of the first couplet (هـدر)

Mention the various readings of the first couplet (,=\$\times)
State the object of the poet in writing this Kasida. Did he attain that object?

اگر مادر شاہ بانو بودے دراسیموزر تابزانو بودے (b) چواندر تبارش بزرگی نبود نیارست نام بزرگان شنود کو Write any two couplets composed by other poets in

Write any two couplets composed by other poets in praise of Firdousi.

دشروار بود بانگ ترواز خانه بد هلیز (۵)
آسان رود آواز وی از بلخ به بلغار
دردست خرد مند همه حکمت گوید
جز ژاژ نخاید همه در دست سبکسار

کلاغسان طبیعت را زباغ انس بیسرون کن همسایان سعسادت را بدام امتحسان درکش

چو خاص الخاص جان گشتی ز صورت پاے بیرون نه هزاران شربت معنسی بسیکهم رائگسان درکش

Write out the words having تركيب اضائي in the last two couplets above.

Explain the composition of the following words, and give the meaning of the elements of which they are compounded:—

رائكان - دشوارا- بلغار - دهليز - سبكسار - كتخدائي

دست صبا در خیال نافہ کشاے آمدہ است (d)
برسر هر سنگ باد غالیہ ساے آمدہ است
ابر مشعبد نہاد پیش طلسم بہار
هر سعر از هر شعر سعر نہائے آمدہ است

كفتهش چيست كد خدائي كفت هفته عيش و غصه سالے چند كفت اورا مثال دنيا چيست كفت زالے كشنده خالے چند

الدون نعمتی که نشاید سدیاس گفت و اسباب راحتے که ندانی شهدار گرده اجراے خاک تیره بتا تیر آفتاب بستان و سیوه و چهن و لاله زار کرده بگردون تیره ابرے بامدادان برشه از دریا جواهر خیزوگوهر ریزو لو لو پیز و گوهر زا تنش باقیر آلوده دالش باشیر آموده برون پر سرمهٔ سوده درون پر لو لوے لالا

(e) Give the masdar of پيز-خيز-ريز Give the antecedent of من in عني in عر

VII. Write the norist (مضارع) and the continuative past tense (ماضي إستمزاري) of the following verbs:—

رُستن - رُستن - جُستن - جُستن - گُزیدن - گزیدن - گزیدن نوشتن نُوشتن

#### PERSIAN.

Examiners.

SHAMS-UL-ULMA MAULVI ZAKA-ULLAH, KKAN) BAHADUR.

MAULYI ABDUL JALIL.

MUNSHI RAM KISHUN.

1. Translate into English: بلنگ گفت آورده اند که روباه گرسنه بطلب طعهه از سوران بر آمده هر جانبے تما پوے میکرد ناگہان بوٹے که آسایش روح او باشد شهید و بجانب آن شتافت پوست پاره تازی دین که یکے از ددان گوشت خوردی برد و پوست رها كرده - چشم روباه از آن روشنائي يافت و تن أو توانائي گرفت آن رَا يُجِنْكَالِ گرفته روے بگوشه نهاد – درميان راه گذرش بر کنار دهی آفتاده مرغان فربه دید که دران صحراً مَّي چَريدند و زيرت غلام نگهباني ايشان ميكرد - روباه را الميل گوشت مرغ در جنبش آورده از پوست پاره فراموش کرد دریں میاں شغالے گذر کرد پرسید که اے برادر غمکیں می نمائی چه واقع دست داد، روباه گفت اے عزیز کرسنگی بشيار كشيده ام و خداوند روزي پوست پاره بهن ارزاني داشته وحالا آرزوے دارم که ازین مرغان یکے بچنگ آورم و عيش گوار - سازم - شغال گفت خيال محال فر سرداري من مدتها در کهین نهان مي باشم آن غلام زيرک را که مي مینی در نگهبانی صید آن اهتمام دارد که این مقصود نمی آید بایس همه بهجرد حیال خورسندم و درین آرزوها روزے بشب و شبی بروز سی آرم - تو که پوست پاره یافتهٔ غنیبت شهار وازین فضوای در گذر - روباه گفت ای برادر مراهبت بلند نہی گذارہ کہ بہارہ پوست بے سزہ سر فرو آرم ودل از كذت گوشت فربه بر گيرم - شِعْال گفت اي خام طبع حرص

وا همت بلند نام كرده نهيداني كه راجت درقناعت است -مي ترسم كه درين فضواي كه درييش گرفته آن پوست پارچ هم از دست رود تو یکبارگی از پاے درآئی - و قصه تو بقصهٔ آن دراز گوش سی ماند که دم سی طلبید و گوش نیز به باد داد \*

2. Translate into Persian: -

He said that his chief's wish was to make his friends happy. The old chief is in great grief, because his friend is dead: My

friend told me that all the chiefs would be at Darbar.

(a) A fierce wolf flew at the little girl, and caught her in his mouth. The little bird flew away with a piece of bread in its mouth. To each of his sons he gave piece of land and a small house. He said that he had taken out the old screw and put in a new one. He told me that he had screwed the two pieces of wood together. He said that she had screwed down the top of the box.

(b) A father who contracts debts is an enemy; a mother who is unchaste is an enemy; a wife who is beautiful is an enemy;

and a son who is not learned is an enemy.

(c) There are two delicious fruits of this world, the poisonous tree, viz; the nectarine taste of poetry and literature, and society of good people.

(d) As jewels are without dress, food without ghi, so is life

without knowledge.

#### SANSKRIT.

PANDIT A. R. BHATTACHARYA, M.A., Examiner.

I. Turn the following sentences into your own Sanskrit, i.e., re-write them, avoiding words and constructions of the text as far as possible:—

कस्मिंश्चिद्धिष्ठाने ब्रह्मद्त्तनामा ब्राह्मणः प्रतिवसति स्म।
सच प्रयोजनवणात् ग्रामे प्रस्थितः स्वमात्रा प्रामिहितः।
वत्स कथं त्वमेकाकी ब्रजसि, तद्विष्यतां कश्चिद् द्वितीयः
सहायः। स प्राह प्रम्व मा भेषीः निरुपद्वीऽयं मार्गः
ततो गुरुकार्य्यवणादेकाकी गमिष्यामि॥

II. (a) Decline the base of the following words throughout the *Vibhaktis*, in the gender in which they are used here:—

कश्चित्, एकाकी, ब्रह्मद्त्तनामा

- (b) If you take away the particle  $\epsilon \eta$ , would the meaning of the predicate in the first sentence be in any way affected?
- (c) Change the construction of the sentence सं स्वमाना माभिहितः from the passive into the active.

(d) Conjugate the root of भतिवस्ति in जिट् (second preterite) and ज्ह (second future), and that of अभिहितः in ज़् (persent).

(e) Parse आह and note peculiarity in the form and use of मा भेषा:।

III. Render the following stanzas into prose, avoiding words and construction of the text as far as you can :—-

मनेरियानां न समाप्तिरस्ति
वर्षायुतेनापि तथाब्दलस्यैः।
पूर्णेषु पूर्वेषु पुनर्नवाना
मुत्पत्तयः सन्ति मनेरियानाम्॥
पद्भ्यां गता यौवनिनश्च जाता
दारेश्च संयोगिसताः प्रमृताः।
दूष्टाः स्रतास्तत्तनयप्रसृतिं
दूष्टुं पुनर्वाञ्कति मेऽन्तरात्मा॥
श्रामृत्युतो नैव मनेरियाना
मन्तोऽस्ति विज्ञातिमद्दं मयाद्य।
मनोरियामिकपरस्यित्तिः
नजायते वै परमात्मसङ्गि॥

IV. (a) Note the peculiarity in the gender and number of दारे:

(b) Give the component parts (प्रकृति मृत्यय) of यौवनिनः and इताः

(c) Expound the Samasa of the compounds.

सनीर्थामक्तिपर्स्य, पर्मात्मसङ्गि ।

Translate into English:—

ततोऽन्तरिचगो वाचं व्याजहार नलं तदा। इन्तव्योऽस्मि न तेराजन् करिप्यामि तवप्रियम्॥ द्मयन्ती सकाशे त्वां कथिययामि नैपध। यथा त्वद्नयं पुरुषं मंस्यते सा न कहिंचित्॥ एवमुक्तस्ततो हंमसुत्ससर्ज महीपतिः। ते तु हंसाः समुत्पत्य विदर्भानगमंस्ततः ॥ विद्रभनगरीं गत्वा द्मयन्तीममन्तिके। निपेत्सते गरुत्मन्तः सा दद्रशं च तान् खगान् ॥ श्रिष हुंसा विसस्युः मर्वतः प्रमदा वने ॥ दमयन्ती तु यं हंसं यमुपाधावदन्तिके। स मान्पीं गिरं कृत्वा दमयन्तीमणाव्रवीत्॥ दमयन्ति नली नाम निपधेष महीपतिः ॥ अधिवनी; सद्रशो रूपे न समास्तस्य मानुपाः॥ तस्य वै यदि भार्या त्वं भवेषा वस्विशिन । सफलं ते भवेज्जन्म रूपञ्चेदं सुमध्यमे ॥

VI. Quote half a dozen slokus from the Chanakya-Niti, and explain them in English.

## SANSKRIT.

PANDIT A. R. BHATTACHARYA, M. A., Examiner.

I Translate into English:

(a) सर्वः पदस्यस्य श्रुहृद्गन्धुरापदि दुर्लेभः। ये यान्त्यापदि बन्धुत्वं श्रुहृदो बन्धवश्चते॥

(b) किं नु मेस्यादिदं कृत्वा किं नु मेस्यादकुर्यत: । इति संचिन्त्य मनसा प्राज्ञः कुर्वीत वानवा॥

(c) आसीद्याध्यायां पुरि भूरिवसुनाम विशाक् । तस्य प्रचुर वसुनीम पुत्री बमूव। सच पितरिमृते लब्धपित्विभवः पितृपरिजन वृहु।न् एच्छतिसा । हे वृहुा: कथयत मम पिता / केने।पायेन धनमे तावत् प्रजितिवान् । वृह्या जनः । विशानः ज्यया केवलम् । प्रच्रवसु स्वाच। कीदूशी सा विशिद्धा। वृद्धा जचः । साधी पिता तव वाराणस्यां क्रीतं वस्तु अया-ध्यायामयोध्यायां क्रीतं वस्तु वाराणस्यां विकीय यदा यत्र मुलमं तदा तत क्रीणाति यहार्घं विक्रीणीते। तती भवानपि व्यवसायं कर्तमहिति ॥ पुरुषो व्यवसायं विना लनेश्वरोऽपि लदम्यापरिहीयते ॥

II. Translate into Sanskrit:-

(a) No hands has He, nor feet, nor eyes, nor ears; And yet He grasps and moves and sees and hears. He all things knows, Himself unknown of all,

Him men the great primeval Spirit call. (b) There was a king of Ajodhya named Dasaratha. Rama, Lakshmana, Bharatha and Satrughna were his four sons. Kaikeyi, a wife of Dasaratha, caused Rama to go to the forest-

there to reside for fourteen years. Rama's wife, Sita, and his brother, Lakshmana, accompanied him. At that time Rávana was the king of the Rakshasas in the island of Lanka. He carried off Sita. Ráma went to Lanka with an army of monkeys. He killed Rávána and gave away the kingdom of Lanka to Rávaná's brother Vibhishana, and returned to Ajodhya with his wife and brother.

## HISTORY AND GEOGRAPHY.

H. G. J. SIDDONS, Esq. Examiners. A. VENIS, Esq., M.A.

I. Give some account of the early inhabitants of India. What is the present population of this country?

II. Sketch the life of Akbar the Great, and show how he organized the Empire.

III. Write a short account of the great Mahratta confederacy.

IV. Mention some of the chief events connected with the

administration of Lord William Bentinck.

V. Narrate briefly the chief events in the reigns of Henry VIII. and Elizabeth.

VI. State what you know of the following:-

Simon of Montfort; Wycliff; Oliver Cromwell; Maud; Marlborough; Wellington.

VII. Describe Magna Charta; the Habeass Corpus Act; the Petition of Right; the Declaration of Right; the September Act; the Act for the better government of India (1858).

VIII. Name in order, and give a brief description of the places you would pass in making a coasting voyage round India from Bombay to Calcutta.

IX. Draw a sketch map of the Nile, marking tributaries

and towns on its banks.

What is meant by the right bank of a river? Name two famous African explorers.

X. Describe the new route from England to the East

via Canada or via the United States.

XI. What are the chief islands of the Indian Archipelago? Name their products and account for the fact that two distinct divisions of animal life are to be found there.

XII. Define "climate," and give some account of the

various causes that affect it.

XIII. Explain carefully how springs are formed. What is the difference between a hard spring and a soft spring?

# ENTRANCE EXAMINATION, 1890.

ENGLISH.—First Paper.

Examiners.

W. C. Horst, Esq. A. H. Pirie, Esq. C. E. Welly, Esq.

BABU MODHU SUDAN MUKEBIL

I. Explain the following passage:-

Who ever gazed upon the broad sea without emotion? Whether seen in stern majesty, hoary with the tempest, rolling its giant waves upon the rocks, and dashing with resistless fury some gal-

lant bark on an iron-bound coast, or sleeping beneath the silver moon, its broad bosom broken but by a gentle ripple, just enough to reflect a long line of light—a path of gold upon a pavement of sapphire;—who has looked upon the sea without feeling that it has power to stir the soul with thoughts profound?

II. Substitute other words for those that are italicized in the following expressions:—the earth is constantly on the wing—the forest older than the flood—the issue of the combat all had foreseen—he replied that he was a citizen of the world—the skilful Lombard took the initiative in that business—fruits that rise between the tropics—in 1745 the Leyden jar was stumbled on—of all the millions of the Modern Babylon.

#### III. Explain clearly:—

(a) Nature abhors a vacuum.

(b) A more economical nature yields nothing except to the sweat of Man's brow.

(c) Trade is the golden girdle of the globe.

(d) Time writes no wrinkle on thine azure brow.

(e) About the hour when the bloody die was to be cast for the life or death of Rebecca.

(f) Sunny tokens of the line.

(g) We see the Great Western Road, as far as the eye can reach, throughd with a bleating mass of wool.

(h) Defoe was a century before his time.

- (i) The infusion of a China plant is sweetened with the pith of an Indian cane.
- (j) In one rich soul Plato, the Stagirite, and Tully joined.
- IV. Write the meaning of the following passages in simple prose:—
  - (a) And should my youth, as youth is apt, I know, Some harshness show,

All vain asperities I day by day

Would wear away, Till the smooth temper of my age should be

Like the high leaves upon the holly tree.

(b) Haply some hoary-headed swain may say,
"Oft have we seen him at the peep of dawn,
Brushing with hasty steps the dews away,
To meet the sun upon the upland lawn."

V. "Say to the Grand Master," replied Rebecca, "that I maintain my innocence, and do not yield me as justly condemned,

lest I become guilty of mine own blood. Say to him that I challenge such delay as his forms will permit, to see if God, whose opportunity is in man's extremity, will raise me up a deliverer."

(a) Turn the above passage from the direct into the indirect

iorm.

(b) Give the meaning of whose opportunity is in man's extremity.

(c) Parse the words that are printed in italics.

VI. Explain clearly the allusions in :-

(a) To the lantern.

(b) Let the hawk stoop, his prey is flown.

Write grammatical notes on rounds and building in-

(c) The watchmen paced their rounds.

(d) While the mill was building.

2 Supply the words that are omitted in-

(c) And happy were my limbs fleet enough to repair the mischief done by my tongue.

VII. Derive:—Copper, pyramid, cambric, sterling. How do the names Kilmarnock and Lancaster throw light on the origin of the places to which they belong?

#### VIII. Explain :-

(a) "Heaven helps those who helps themselves" is a well tried maxim, embodying in a small compass the results of vast human experience. The spirit of self-help is the root of all genuine growth in the individual, and exhibited in the lives of many, it constitutes the true source of national vigour and strength. Help from without is often enfeebling in its effects, but help from within invariably invigorates.

(b) Beware of too sublime sense
Of your own worth and consequence!
The man who dreams himself so great,
And his importance of such weight,
That all around, in all that's done,
Must move and act for him alone,
Will learn in school of tribulation
The folly of his expectation.

IX. Write short notes on :-Rowland Hill, Teneriffe, Ivanhoe, The British Soloman.

# ENGLISH.—SECOND PAPER.

I. By the help of suffixes convert the following adjectives into nouns:—sweet, wise, pure, perfect; the following nouns into adjectives:—grace, brother, foot, wood; the following adjectives into verbs:—just, humble, strong, wide; and the following verbs into nouns:—dig, sow, receive, think.

II. Construct sentences showing the use of high as (1) adjective and (2) adverb, of step as (1) noun and (2) verb, that as (1) relative pronoun, (2) conjunction, and (3) adjective, and but as (1) adverb, (2) conjunction, and (3) preposition.

III. (a) What is meant by regular and what by irregular comparison? Compare ill, high, upmost, gay, evil, and pretty.

(b) Construct complete sentences, having a noun as subject, containing (1) the past progressive of lie, (2) the past indefinite passive of catch, the present progressive passive of cut, and the future perfect passive of smite.

IV. Define and illustrate by examples the following grammatical terms:—A noun in opposition, the nominative absolute, cognate object, extension of the predicate, complex

sentence, antecedent, reflexive pronoun.

V. Give the general analysis of the following sentence, pointing out the nature of the different clauses, and stating their grammatical relation to each other; and parse fully the words in italies:—"All the remedy that offered to my thought at that time was to get up into a thick bushy tree like a fir, "which grew near me, and where I resolved to sit all night," and consider next day what death I should die, for as yet I saw no prospect of life."

## URDU TRANSLATION.

-: Translate from Urdu into English جھوتی چھوتی تجارتگاھیں جہاں گاؤنکے لوگونکی ضروریات مل سکیں ھر جگہ چند میلوں کے فاصلہ پر موجود ھیں – یہ مقامات اکثر چند کھے مکان اور جھوپڑوں کے اِجتہاء سے بن گئے ھیں اور کسی سرک کے دونوں جانب واقع ھیں – اُن میں کہیں ایک دو مکان ایسے بھی ھیں جنگی کوتھی اور کھپڑیل سے صاف ایک دو مکان ایسے بھی ھیں جنگی کوتھی اور کھپڑیل سے صاف

ظاہر ہے کہ یہ غلہ فروشوں اررسها جنوں کے مکاں ہیں۔ اور یہ وریه اکثر ایک هی شخص کرتا هے - سواے انکے ایک رور روں بیسے جو پیتل کے برتن کھانے اور بینے کے بیستا ہے تھتیرا هوتا هے جو پیتل کے برتن کھانے اور بینے کے بیستا مستر میں کے اوگوں کے گویا کل اسباب خانہ تصور کیگئے جو کہ وہاں کے اوگوں کے گویا کل اسباب خانہ تصور کیگئے جاسکتے هیں۔ اور چند بزاز هوتے هیں جنکے بہت تهورے جرقیمت دوئی کے کیزے اور موقع قسم کے کمبل هوتے هیں۔ اور کم قیمت دوئی کے کیزے ایک علوائی کی دو کان - اور ایک یا چند چھپر جسکے نیجی ایک علوائی کی دو کان - اور ایک یا جوار اولاتا ہے جسکے بهتربهونجا سوکھے پتوں کے آگ سے دال یا جوار اولاتا ہے جسکے رور المراج المركوني فاشته مسافر كونهين مل سكتا - كيونكه روتي سواے آور كوئي فاشته مسافر كونهين مل سكتا - كيونكه روتي كورسوئين كي جگه سے علمان كركے كهانا مناهب ميں منح حررسي عي بازار لکتا هے جو که اکثر دو دن في هفته هے۔ جن دنوں میں بازار لکتا هے جو ب موتے ہیں انہیں سوک کے دونوں مانب کے درختوں کے ساید سرے سین سین سرت ہے دوس بر بن ہے درصروں نے سیم میں تھوڑی دار کے لیکے دوکانیں لگائی جاتی دیں جنہیں میں تھوڑی دار کے لیکے دوکانیاں بھا بھیا کر شیشہ کے دانوں کے بساطی اور بنگے چھائیاں بھیا بھی اندیدہ مائے آور جہاجم رنگیں پہنچیاں لاکھہ یا شیشہ کی اور تبہاکو بینے کو) اور تھوڑے بہت اقسام سفتلفہ کے معبولی اور بینے کو) اور تھوڑے بہت اقسام سفتلفہ کے معبولی اور ترکاریاں علمان علمان علمان علمان اور کھواکر رکھتے هیں ا

Translate from Hindi into English: HINDI TRANSLATION.

सर्वत्र वनिज व्यीपार की छोटी २ वस्तियां बीच २ म चन्द मील के फ़ासले पर बसी हैं। जहां दिहाती रिज़ाया की प्रयोजन की वस्तु मिलती हैं। ये बस्तियां सहया के किनारे पर स्थित होती हैं और कची भीत के भीपड़ों की होती हैं। जहां तहां दी एक दी मनज़िले नकान भी नज़र में प्राते हैं जिल के जपर के कीठों से श्रीर खपरों से यह नालूम हो जरता है कि वह किसी बड़े विनया या महाजन का रहने

का मकान है ॥ ये लोग गला बेचना और लेन देन का दोनों पेशों का एक साथ उठाये रहते हैं ॥ इन बनियों के सिवा वहां उठेरे भी बसते हैं जो खाने पीने के थाली लोटों की सरबराह बारते हैं। श्रीर यही बर्तन बहुतेरों की गृहस्थी का कुल प्रसवाब होता है ॥ उसी बस्ती में एक बजाज़ भी द्रकान रखता है जिसके पास थोड़े से सस्ते सूती कपड़े ख्रीर मोटे किस्स के जनी कम्बल रहते हैं॥ श्रीर हलवाई भी वहां रहसा है ॥ ऋीर दो एक कोपड़ों में भुज़ वे भार में चूखे पत्तों की आग की आंच पर चना, सुद्दा, या, काजरा भंजते हैं॥ फ्रीर यही विविकों का आहार होता है। क्यों कि ये अपने धर्म की सर्थादा से अनुसार चौसे के बाहर घर की पकाई रोटी नहीं खाते॥ जब (हफ़्ते में दो दिन) हुइट लगता है सङ्ख के कियारे पेड़ों के तले घोड़े काल के लिये दूकाने खड़ी हो जाती हैं।। और ज़मीन पर चटाई बिखा कर जेरी वाले फ्रीर पसारी काच के दाने, रङ्ग बरङ्ग की लाह की चूड़ियां, तमाकू (सूखी संह से रखकर कुचुलने के छिये और गुड़ में सना लगदी हुद्धा में पीने के लिये) और लाधारण प्रकार के शुदे र मंत्राले और भाजी तरकारी घरते हैं।

# ARITHMETIC AND ALGEBRA.

FIRST PAPER.

PANDIT LAXSHMI SHANKAR, M.A., Examiner.

1. Multiply 347695 by 2 0026, and divide the product by 01905.

2. Simplify:

 $1\frac{3}{8}+3\frac{1}{3}-5\frac{5}{6}+2\frac{1}{4}-1\frac{1}{12}$ .
3. Find by practice or otherwise the value of 2,345 mds.
27 seers and 10 chhataks of wheat at 3 Rs. 10 as. 8 ps. per maund.

4. Extract the square root of 1-(00135)2 to 5 places of decimals.

5. The weight of a cubic inch of water is 253:17 grains, that of a cubic inch of air is 31 grains; find to 3 places of decimals how many cubic inches of water are equal in weight to one cubic foot of air.

On measuring a distance of 32 yds, with a rod of a certain length it was found that the rod was contained 41 times with ½ an inch over. How many inches will there be over in measuring 4.4 yds, with the same rod?

If s=a+b+c, prove that

 $(as+bc)(bs+cu)(cs+ab)=(b+c)^2(c+a)^2(a+b)^2.$ Solve the following equation:

$$x - \left(3x - \frac{2x + 5}{10}\right) = \frac{1}{6}(2x + 57) + \frac{5}{3}$$
et the square root =  $6x^2 + 10$ 

Extract the square root of  $\frac{a^2}{b^2} + \frac{b^2}{a^2} + 3 + \frac{2a}{b} + \frac{2b}{a}$ . 10.

1. If 
$$a: b: \frac{\sin p \operatorname{lify} := \frac{\cos b \operatorname{or} \frac{b}{b^2} + \frac{b^2}{a^2} + 3 + \frac{2a}{b}}{y-x}}{\sin p \operatorname{lify} := \frac{(y - \frac{a^2 - \sigma y}{y - x})(x + \frac{a^2 - \sigma z}{y - x}) + (\frac{a^2 - \sigma y}{a^2})}{b}$$

 $\left(y - \frac{\alpha^2 - \sigma y}{y - x}\right) \left(x + \frac{\alpha^2 - \sigma z}{y - x}\right) + \left(\frac{\alpha^2 - \sigma y}{y - x}\right)^2.$ 

If a:b::c:d prove that  $(a^{2}+c^{2})(b^{2}+d^{2})=(ab+cd)^{2}.$ 

12. A person walked out a certain distance at the rate of 31 miles an hour, and then ran part of the way back at the rate of 7 miles an hour, walking the remaining distance in 7 minutes. He was out 35 minutes. How far did he run?

# GEOMETRY AND MENSURATION. Second Paper.

H. O. Budden, Esq.  $P_{ANDIT}$  Sudhaker Dube,  $E_{ER}$ Define a straight line, an acute angled triangle, a circle,

parallel straight lines, a gnomon, an angle in a segment. When are magnitudes said to be equal? What is meant by the height of a triangle?

II. If two triangles have two sides of the one equal to two sides of the other, each to each, and have likewise their bases equal, the angle which is contained by the two sides of the one shall be equal to the angle contained by the two sides equal to them of the other.

(A direct proof of this proposition may be given if pre-

ferred.)

III. Prove that if a straight line fall upon two parallel; straight lines, it makes the alternate angles equal to one another.

IV. If two opposite sides of a parallelogram be bisected, and two lines be drawn from the points of bisection to the opposite angles, these two lines trisect the diagonal.

V. If the square described upon one of the sides of a triangle be equal to the squares upon the other two sides, show that the angle contained by these two sides is a right angle.

VI. Given that the square on a line divided into any two parts is equal to the squares on the two parts together with twice the rectangle contained by the parts; from this proposition deduce a proof of the 47th proposition of Book I.

VII. If a straight line be divided into any two parts, the squares on the whole line and on one of the parts are equal to twice the rectangle contained by the whole and that part, together with the square on the other part.

VIII. The angle at the centre of a circle is double of the

angle at the circumference upon the same base.

IX. If two straight lines cut one another within a circle, neither of which passes through the centre, prove, without assuming the previous cases proved by Euclid, that the rectangle contained by the segments of one of them is equal to the rectangle contained by the segments of the other.

X. To describe an isosceles triangle having each of the angles at the base double of the third angle.

Give the construction only of this problem.

(b) Divide a right angle into five equal parts.

XI. A ladder 24 feet long stands upright against a wall; how far must the bottom of the ladder be pulled out so as to lower the top 3 feet?

XII. Find the diameter of the circle round a triangle whose sides are 123, 122, and 49.

#### ARABIC.—FIRST PAPER.

MAULVI SYED AMJAD ALI, M. A., Examiner.

I. Translate into English:

قيل كان تاجرسعيدا – فارادالغروج الي بعض الجهات – و كان عنده ماية من العديد – فاودعها عندرجل من اخوانه – و فهبالي سفره – ثم لها قدم من السفر توجه الي صاحبه و طلب منه الوديعة فقال له صاحبه قد اكلتها الجرف أن – قال قد سهعت لاشيء اقطح من اسنا نها – ففرح الرجل بتعديقه علي ما قال – ثم ان التاجر خرج و لقي ابن الرجل – فاخذه و ذهب به الي بيته – ثم رجح الي الرجل من الغد – فقال لمالرجل هل عندك من ابني خبر أفقال التاجراني حين خرجت من عندك بالامس رايت بازاً اختطف غلامالعله ابنك – فصوخ الرجل و قال يا قوم هل رايتم او سهعتم ان البزاة تخطف الصبيان ? فقال التاجر ارضاتا كل جرفانها العديد ليس بهستنكر لبزاتها أن تخف الفيلة – قال الرجل انا اكلت حديدك – و هذا ثهنه – فارده على ولدي ه

- 2. (a) Re-write the above with diacritical marks (مركات) as clearly as you can.
- (b) Write out the Jas that the word it in the above tale has undergone; give other words with similar Jas, adding their planals and meanings; and use these words with the addition of I the definite article, accounting for the change at the end of them.
  - (c) Give the مستنكر infinitive of مستنكر and the اللي مجرد infinitive of اللي اللي infinitive of اللي
- 3. Give the roots, the meanings, and the singulars or plurals, as the case may be, of the following:—
- لقهة موة امير لحم لبن شريف جواري ههة حهار قارورة سبيل متخشم شيخ سرب لاح فائب-

ضيعة - تاج - ودايع - معان - رسول - نبي - فواش - مجلون-رزن - ضافت - آغار - عبد - عزائم - قصة \*

4. Who was ابن الطيار , and how was the epithet derived ?

5. Give the infinitive (مصادر) of all the نفر , taking ifor your root. Mention the various babs (ابراب) of the triliterals (ثلاثي مجرد), placing the عيس كلمة of عيس كلمة as distinctly as you can in their past and future tenses singular.

6. (a) Give a list of prepositions (حروف جر) with meanings of each and examples so far as you remember from your

Arabic text. Other examples than the above can also do.

(a) Mention حرف مشبع بفعل and their government (ممل); illustrate with examples.

(c) Mention the governments of الس, صار, الم , and يا illus-

trating with examples.
7. Translate into English:—

البعديدني كل اسر شاسع و البعد يفتح كل باب مغلق واحق خلسق الله بالهم اسرؤ فوهمة يبلي بعيش ضيت وسن الدايل على القضاء وحكمه بؤس اللبيب وطيب عيش الاحمق بقدر الكد تنقسم الهمالي فهن طلب العلي سهوالليالي تسووم العرز ثم تنام ليلا يغوص البحر من طلب اللالي و من طلب المحال و من طلب الهمال

8. (a) Name the different authors from whom the above poetical extracts are taken, and mention in short what you know about them.

(b) Separate the different parts of speech (according to Arabic Grammar) in the above and put them under proper heads.

(c) Make present participles (اسم ذاعل) singular masculine from the following:—بؤس المناع - بؤس المناع - بغرص المناع - ب

9. Give the origin and the application of the proverb, تسمح بالمعيدي خير من ان تراه

10. Translate the following and mention the tale connected with it as given in your text:—

در - دراد ال نزول قرآن تحصیل سیرت خوب است نه تر تیل سورت مکتوب - استعداد به تربیت دریخ است و تربیت نا مستعد ضایع - خاکستر نسبتی عالی دارد که آتش جو هر علری ست و لیکن چون به نفس خود هنری ندارد با خاک برابر است

لقهان معاصر داؤد سلام الله عليه بود و پيوسته به (b) سجلس شريف حضرت نبوي آمد شد مي نبود - اكثر ارباب اخبار اتفاق دازنه كه آن قدوهٔ إحرار دار مبدأ حال دار سلك مهاليك يكي از بني إسرائيل إنتظام داشته و دار سبب آزادي او وجود متعدد ثبت نبوده اند و اكثر آنها در ماثر الهلوك مرقوم كلك بيان گشته \*

بعد از اِنقضاے شام باز بدماغ تازه و طبع شگفته که (٥)
اصلامتغیرومتبدل نهی شود بلکه در هنگام کار طراوت و تازگی
دیگر بهم می رساند بر سریر فلک، نظیر تکیه زده ههت والا
بانتظام أمور خلافت مصروت می فرمایند و گوهر مطالب خاص
که از دیدهٔ ارباب بصیرت مخفی و مستور مانده باشد بغواصی
فکر و دستیاری طبع دقیق بچنگ آورده آویزه گوش اهل
هوش می سازند و دیچ مطلبی از مطالب و مقصدی از مقاصد
در پیش طبع باریک بین اشرت موقوت و معطل نهی ماند «

براے زن سو گلیت نیم تنه یخه در امه طلا فرمایش (d)
میدا دید- بارک الله ببردی شها - خواهید گفت خواهرم زن
هدایت خان براے شعلدخانم سوقات فرستاده است بارک اللهخواهرت را بهن می شنا سانی - خزاهر تو از خسیسی مثل
تاجر هاے اصفهانی پنیر را توے شیشه کرده نانش را پشت
شیشد میکشد - حال همچو شده است که نیم تنه پنجاه وشصت
تو مانی براے زن تو سوقات بفر ستد »

II. (a) Write briefly in Persian what you know about of (b) Explain the following phrases, and frame short sentences to illustrate their use:—

گير أفتان - ويل كرن - طبع موشكات - فرامين جهان مطاع-قصب السبق - طرفة العين -

III. (a) Give the derivation and meaning of the following, and write down the singulars of the plural nouns and the plurals of those that are singular:—

عوائق-جریده- افواه-سورت-مهالیک - تِلهیدً- آیات-صلوه - قورچیان -

چاڑھان - يسارلان - مير ترزكان Give English equivalents for چاڑھان - مير ترزكان and برق اندازان

IV. Explain as clearly as possible in Urdu the following verses:—

جهان تدره است و ره مشکل جنیبت را عنان در کش (۵) (مانی رخت هسستی را بخلو تگاه جسان در کش

كلاغان طبيعست را زباغ أنس بيسرون كسن همسايان سعادت را بدام امتحسان در كسش

چو خاص الخاصجان گشتی ز صورت پاے بیرون نه فراران شربت معندی بیکسدل رائگان در کسش در صبوح آنرام ریحانی بخوالا « دانهٔ سرغان روحانی بخوالا (۵)

ساغرے چون رشک داؤدی برنگ \* از پیٹے روے سلیمانی بخوالا از اہدان را آشکارا می بدہ \* شاهدان را بوسه پنهانی بخوالا

کجا خیزد چو تو سروی جسوان و نازک و دابر (۵) شکر گفتار و شیرین کار و گل رخسار و سه دیکر فباشد چون لب و اندام و گیسسو و برت هر گزشکر شرین و گل رنگین و شب مشکین و صبح انور

برد اندیشدهٔ مهر و فسب مسدین و عبیم الور برد اندیشدهٔ مهر و فسران و آرزوے تسو زشخصم تاب و رویم آب و چشهم خواب و خانم خور V. Translate the following into English and explain the figures of speech contained therein:—

زعدل کامل خسرو ز اطف شامل سلطان تدرو و کبب و گور و مور گردستند در گیهای یکی ههخانهٔ شاهین دوم ههخانهٔ طخرل یکی ههخانهٔ طخان سد دیگر مونس ضیغم چهارم ههادم تعبان خداوند جهان سنجر که ههاواره چهار آیت بود در رایت و راے و جبین و روے او پنهان یکسی به روزی دولت درم فیرروزی ملت سه دیگر زینت دنیا چهارم نصرت ایهان شد اندر عصر او ناقص شد اندر قرن او زائل شد اندر وقت او پنهان شد اندر وقت او پنهان یکی ناموس کیخسرو دوم مقددار اسکندر یکی ناموس کیخسرو دوم مقددار اسکندر

VI. (a). Explain the allusions in the last verse of the above.

مثنري define رديف and تافية define مثنري

# PERSIAN.—SECOND PAPER.

RAM KISHEN. SYED KALAN, M.A. Ecominens.

1. Translate the following passages into English:

آورده اند که شبانی نزدیک کنارهٔ دریا در روز روشن (۵)

رمت خود را می چرانید چرن سکون آب دریا دیدخواست که

ترک شبانی گرفته پیشت تجارت اختیار کند پس به سرعت دری شبانی گرفته پیشته تجارت اختیار کند پس به سرعت دریه تران و رفضندان خود را بفروخت و ازآن زر بستها انجیو خرید و آن را برکشتی بار کرده بقصه تجارت بر روے دریا رزان شد قضا را باد سخالف و زیدن گرفت و سلاحان از بهرسلامت خود و امان کشتی بار سفینه را در دریا انداختند

بینچاری شبان ازین مصیب ناگهانی از خیال تجارت باز آمد و پیشهٔ قدیم خود اختیار کرد خروزے برهمان ساحل گرسفلدان سی چرانید آب دریا را ساکن یافته خطاب کرد و گفت آیا باز انجیرها سیخواهی «

عفو ملوک را بهترین صفتے است واهل اقتدار را (ن) عفو ملوک را بهترین صفتے است واهل اقتدار را (ن) خوشترین جبلتے و اگر ملوک در عفو و مرحبت در بندند و از هر کتبا چون اندک خیانتے بینند در باب او بعقوبت اس فرمایند نزدیکان را اعتقاد صافی نهاند و دیگر برایشان اعتهاد نکنند و ازین حال دو علت حادث شود یکے آنکه کارها مهمل و معلل ماند دوم آنکه مجرمان از اندت عفو و منت اغهاض بے نصیب شوند - یکے از اکابر ملوک گفته است که اگر خلق بدانند که کام جان ما بچاشنی عفو چه اندت می یابد هر آئینه جز جرم و خیانت هدیه بدرگاه ما نیارند - و پسندیده سیرتے ملوک را آن است که عقل ارجهند را در حوادت حاکم خویش سازند و در هیپی وقت اخلاق خود را از اطف و درشتی خانی نگدارند شا

II... Translate the following passages into Persian:-

(a) The people of Bhutan are rude, robust, and dirty, with flat faces of the Tartar type, and high check bones narrowing down to the chin. They have ruddy brown complexions; black hair cut close to the head; small, black, almond-shaped eyes; very thin cyclashes; and little or no cyclows or beards. They are coarse and filthy in their manners, and leave all the field work to the women, who are as coarse as the men.

(b) The height of the eamel is, in general, about six feet, and the body is covered with dusky or ash-eoloured hair. It has a short head, small ears, and a long bending neek, and is rendered remarkable by the humps on its back. It is the most temperate of animals, and it can continue to travel several days without drinking. In those vast deserts, where the earth is everywhere dry and saudy, where there are neither birds nor beasts, neither insects nor vegetables, where nothing is to be seen but hills of sand and heaps of stone—there the camel travels, posting forward without requiring either drink or pasture, and is often found six or seven days without any sustenance whatsoever.

# SANSKRIT.—FIRST PAPER.

PANDIT ADITYA RAM BHATTACHARYA, M.A., Examiners.

मसिश्वित सरोवरे भारण्डनामा पद्येकादरः प्रग्रांवः प्रतिवसित सा। तेन च समुद्रतीरे परिश्रमता किञ्चित फलममृतकरणं तरङ्गाद्विप्तं सम्प्राप्तम् ॥ से। उपि भव्यिन्तद्माह । श्रहो बहूनि मया फलानि भिव्वतानि परमपूर्वी उत्यास्तादः । एवं तस्य ब्रुवतो द्वितीयमुखेनाभिहितम् । भी यद्येवं तन्मनापि स्तीकं प्रयच्छ । येन जिहूासीस्थमनुभवामि । ततो विहस्य प्रथमवक्ते शाभिहितम् । श्रावयोस्तावदेकमुद्रमेकातृप्तिश्च भ-वित । ततो विहस्य प्रथमवक्ते शाभिहितम् । श्रावयोस्तावदेकमुद्रमेकातृप्तिश्च भ-वित । ततो विहस्य प्रथमक्ते शाभिहितम् । श्रावयोस्तावदेकमुद्रमेकातृप्तिश्च भ-वित । तत्ते विद्या भिष्तते । त्रज्ञान्येद्य-तिह्नादेव प्रभृतिः सोद्वेगं स्विपादंच तिष्ठति । श्रजान्येद्य-द्वित्तीयेन मुखेन विषक्तं प्राप्तं। तद्दृष्ट्वा परमाह। भो पुरुषाधम मया विषक्तमासादितम् । तत्त्वापमानाद् भव्यामि । श्रर्थवं वद्ता तेनापमानेन फलं भिवतम् । द्वाविप विनष्टी ॥

- (a) Quote the shloka which points the moral to this tale.
- (b) Analyze the Sandhi occuring in কৰিণিখিল; भश्यितिहम्; आन्येखुहिंतीयेन; हाविष ।। And state rules by which you are authorized to do so.
- (c) What part of the verb is wit I Genjugate its root in the tense in which it is used.
- (d) Change the construction of the following from the passive into the active:—
  - (1) तेन परिभ्रमता किञ्चित फलं सम्प्राप्तम्।
  - (2) प्रथमेन वक्ते गाभिहितम्।
  - (3) अनेन शेषेण प्रिया तीप्यते ॥
- (e) Expound the Samásas of भारण्डनामा, एकोइरः, पुधम्मीवः, पुरुषाधम ॥

- (f) What other cases could you use in the place of (1) मम (2) मुक्तो and 3) भारएड्याः in (1) ममापि स्तोकं प्रयच्छ ।2) तस्य मुक्तो and (3) भारएड्या पदनम्॥
  - 2. मृद्घट इव सुखभेद्योः दुःसन्धानश्च दुर्जनो भवति । सुजनस्त् कनकघट इव दुर्भेदः सुकरसन्धिश्च ॥

न्नारम्भगुर्वीचयिणी क्रमेण लघ्बी पुरा वृद्धिमती च पश्चात्। दिनस्य पूर्वाद्धेपराद्धेभिना छायेव मैत्री खलसज्जनानाम्॥ Turn the above into easy prose.

- 3. Quote a couple of couplets from the Hitopadesasárasangraha in praise of पूरपकार; and one from the Mahábhárata enjoining rèspectful conduct towards parents and teachers. And translate them into English.
  - 4. (1) व्यथां जिह स्वबुद्धाः त्वस् स्वयं यास्यामि तत्र च। एतद्वि परमं नार्थ्याः कार्यं लोके सनातनं। प्राणानपि परित्यस्य यद् भर्त्हितनाचरेत्॥
    - (2) श्रात्मा पुत्रः सखा भार्या कृच्छन्तु दुहिता किल। स कृच्छान्मीचयात्मानं माञ्च धम्मे नियाजय॥
- (a) By whom and on what occasion were the thoughts in the two above extracts given expression to?

(b) Explain the second extract.

- (c) Conjugate the root of লাই in the tense in which it is used. Give its passive past participle.
- 5. Write short notes on the proper names occurring in the following shloka:—

यां गतिं सगरः शैव्यो दिलीपो जनमेजयः। नहुषो धुन्धुमारश्च प्राप्तास्तां गच्छ पुत्रकः॥

6. Translate into English:—
यां हि शूरा गतिं यान्ति संग्रामेष्वनिवर्त्तिनः।
हतास्त्वभिमुखा पुत्र गतिं तां परमां व्रज ॥

यां गतिः सर्वभूतानां स्वाध्यायास्तपमञ्च याः भूमिदस्याहितशिञ्च एकपतीव्रतस्य च। गोसहस्त्रप्रदातृतां गुननेवाधतानिष। देहन्यासकृतां या च तां गतिं गच्छ पुत्रक॥

SANSKRIT.—Second Paper.

PANDIT ADITYA RAM BHATTACHARYA, M.A., Examiner.

1. Transtale into English:-

इदं गया प्रशीतं पुस्तकं सर्वया परिशुद्धिमिति वक्तु-भशक्यम् तथापि यावता परिश्रमेगा परिशुद्धिमेवति तावान् भूयान् परिश्रमः कृतोऽस्ति ॥ श्रक्तिं होने नरस्य चरितान्येव तं गुरुत्वं लघुत्वं वा नयन्ति ॥

गच्छतस्तिष्ठतो वापि जाग्रतः स्वपतोऽपि वा।
यन भूतिह्तार्थाय तत् पणोरिव चेष्टितम्।
कृते प्रत्युपकारो ये। विक्रिण् धन्नों न साधुता।
तन्नापि ये न कुर्वन्ति पणवस्ते न मानुपाः॥
ऋणु पूर्वं वहत् पष्टाद् भवत्यार्थेषु मङ्गतिम्॥
विपरीतसनार्थेषु यथेच्छिस तथा कुम्॥
सिद्धरेव सदासीत सिद्धः कुर्वात सङ्गतम्।
सिद्धरेव सदासीत सिद्धः कुर्वात सङ्गतम्।

2. Translate into Sanskrit:-

(b) A boy once saw a golden coin fallen on the ground. He took it up and said: "I will keep it with me; no one will know

<sup>(</sup>a) Once upon a time a learned man went to a king. The king being pleased with his vast knowledge said to him: "Worthy Sir, I wish to ask you one question. Be pleased to answer it. Tell me, what is God?"

that I have got it." But he immediately remembered the words of his teacher and his parents. The words were 'Though thou dost not see God, He sees thee.'

(c) A king is the strength of the weak; erying is the strength of children; silence is the strength of the ignorant; forgiveness is

the strength of the righteous.

## HISTORY AND GEOGRAPHY.

REV. L. F. PHILLIPS, M. A., P. M. WALLACE, ESQ., B.A. BABU ABHAYA CHURN SANYAL, M.A.

Examiners.

Where was the original home of the English People? When did they settle in England, and how was the country governed before the Norman Conquest?'

2. What led to the war between Charles I. and the Parliament? Sketch briefly the course of events from the

execution of the king to the Restoration.

3. Who was the last king of the House of Stuart? When did he come to the throne, and by whom, and under what circumstances was he succeeded?

4. Give the dates of the following events:—the Battle of Waterloo, the Great Charter, the Death of Henry VIII; the Battle of Cressy, the Defeat of the Spanish Armada, the Accessions of Queen Victoria, the Murder of Thomas a Becket, the Battle of Bosworth.

5. State what you know of the various Muhammadan

invasions of India.

6. At what date and with what object was the East India Company formed? What previous connection had there been between India and European countries?

7. Sketch the career of Clive.

8. Write a short account of each of the following:— Tantia Topi, Gautama, Humayun, Sivaji, Nanek, Ranjit Singh, Nandkumar.

9. Name in order the countries, with the chief rivers and towns, that a ship would pass in sailing along the coast from Alexandria to D'Urban (Port Natal) previous to the opening of the Sucz Canal.

10. State the geographical positions, forms of government, and chief towns, of the following countries:—Canada, Egypt, Brazil, New South Wales, Mexico, New Zealand, the United States, Afghanistan. Why is the last named called a "buffer state"? Who are the Maories?

11. Describe (a) the courses of the following rivers:—
Canton, Amazon, Jumna, St. Lawrence.

Tigris;

(b) the positions of the following mountain ranges:—Atlas, Neilgherry, Ural, Alleghany.

12. What do you know of the size, shape and motions.

of the earth?

13. Explain the following terms: - Dew point, Water-shed, Delta, Volcano, Moraine, Trade Winds.

# ENTRANCE EXAMINATION, 1891.

ENGLISH.—First Paper.

H. O. Budden, Esq. Beaminers. W. C. Horst, Esq.

N.B.—Particular attention must be paid to neat writing and correct spelling.

1. Give the meaning of the following passages in other

words:-

- (a) The closing scene of the French dominion in Canwla was marked by circumstances of deep and peculiar interest. The pages of romance can furnish no more striking episode than the battle of Quebec. The skill and during of the plan which brought on the combat, and the success and fortune of its execution are unparalleled.
- (b) The inhabitants of the ocean are as much creatures of climate as are those of the dry land; for the same Almighty hand which decked the lily and cares for the sparrow fashioned also the pearl and feeds the great whale, and adapted each to the physical

conditions by which his providence has surrounded it.

- 2. (a) What is the allusion in the part in italics in the above extract?
- (b) Why is "decked" in the past tense and "carea" in the present, and so with the verbs following 1

- (c) Point out the different uses of the definite article as they occur in 1, (b).
  - 3. Explain carefully the following extracts:—
- (a) The fine thread of that far spreading web which makes London the most sensitive spot on the earth.
- (b) The mercurial little Frenchman was beside himself with exultation.
- (c) The river which lay, like Jordan, between her and the Canaan of liberty on the other side.
- ever yet moved the human race was decided in this struggle.
- (e) Expectation darkened into anxiety, anxiety into dread, and dread into despair.
- (f) They patiently tolerated their nominal dependence only because they were virtually independent.
  - (g) It rubs off some of the rust of national prejudice.
- 4. (a) What figures of speech are used in extracts e and g in the above?
  - (b) Criticise the construction in extract d.
- (c) Define a compound sentence, a complex sentence, and an adverbial sentence; and point out an example of each in the above question.
- 5. Express in simple prose, using the indirect form of narration, the meaning of the followings lines:—
  - (a) O ye, the wise who think, the wise who reign!

    From growing commerce loose her latest chain.

    And let the fair white-winged peacemaker fly

    To happy heavens under all the sky,

    And mix the seasons and the golden hours,

    Till each man finds his own in all men's good,

    And all men work in noble brotherhood.
  - (b) Man through all ages of revolving time
    Unchanging man, in every varying clime,
    Deems his own land of every land the pride,
    Beloved by heaven o'er all the world beside;
    His home the spot of earth supremely blest,
    A dearer, sweeter, spot than all the rest.
- 6. Explain the meanings of the following words by a reference to their derivation;—carnival—dexterous—disaster—balcony—metropolis—disseminate—perennial—carnage.

7. Write brief accounts of :-

The Revocation of the Edict of Nantes.

The Pilgrim Fathers.

The Parable of the Rich Man and Lazarus.

- 8. Give in your own words, in simple plain English, the meaning of the following passages, which are not in your prescribed text book:—
- (a) We are inclined to think that we shall best meet the wishes of our readers, if, instead of dwelling on the faults of this book, (Life of Warren Hastings) we attempt to give, in a way necessarily hasty and imperfect, our own view of the life and character of Mr. Hastings. He had great qualities, and he rendered great services to the State. But to represent him at a man of stainless virtue is to make him ridiculous; and from regard to his memory, if from no other feeling, his friends would have done well to lend no countenance to such extravagant praise. We believe that if he were now living, he would have sufficient judgment and sufficient greatness of mind to wish to be shown on he was.
  - (b) And now my duty leads me far away:
    My Sire commands it, and I must obey.
    Where'er the order that my parents give,
    I yield obedience, or must cease to live.
    No, Sita, not the sacrificial blaze,
    True heart, or liberal hand, or lip of praise,
    Will with such lasting joy the spirit fill
    As glad obedience to a father's will.

## ENGLISH.—SECOND PAPER.

- C. E. Welby, Esq. C. H. Linton, Esq., B.A. Exameners.
- 1. Explain the distinction of nouns into abstract and concrete. Classify the following nouns—William I, humanity, virtue, brilliams, gold, fleet, city, quadruped. State in what respects nouns are inflected. Give two instances of nouns that have their singular and plural alike, of nouns that have two plural forms with different meanings; of nouns that are used only in the plural.
  - 2. Compose sentences to illustrate the use of as and hat as substitutes for the relative pronoun. By short sentence:

show the distinction between that used as a demonstrative pronoun and that used as a demonstrative adjective. Compose sentences to show the correct use of each; either; older and elder; later and latter.

3. What is the meaning of tense? Distinguish between the force of—I write and I am writing; I wrote and I have written. What is the gerundial infinitive? Parse the italicized words in the following:—

He thanked him for saving his life,

He dreads going.

A house to let. To err is human.

4. Give, with examples, the different kinds of adverbs. Refer each of the following adverbs to its class—whither, seldom, certainly, as, only. State the difference in meaning between—He only lived for their sakes, and, He lived only

for their sake.

5. (a) Form sentences to illustrate the difference between:—Habit and custom; repentance and remorse; unnatural and supernatural.

(b) Explain the force of to in 'ten to one'; of after in 'to

name after; of against in 'against my return.'

(c) Correct the following sentences and point out what error has been made:—

(1) The whole army were defeated and fled.

(2) His horse is very much like that of my father's.

(3) Can I leave the room?

(4) He has neither kin nor kith in the country.

(5) If it was not so I would have told you.

(d) Explain the force of the prefixes in the following:—afoot, gainsay, twilight, withstand, circumscribe, illegal, manuscript, amphibious, archangel.

#### URDU.

Translate into English:—

قندهار کا راسته جو تقریباً تین سو ستر میل هی نهایت دای سب و اور سیراب چشهون سے گذرتا هے ایکن هملوگون کو کبھی کبھی آیک پورا دن بلکه

دو دو دنوں تک پتھریلي اور اوسر اور معف بے آب جگہوں میں گھوروں پر بھاگا بھاگا پھرنا پڑا \*

بہت دنوں کے بعد هملوگوں نے باغات اور مفصلات قندهار کے جو اس ضلح کا تختگاہ ہی دیکھا۔یہ شہر نہایت مضبوطی کے ساتم قلعہ بند هی اور عبدہ توپوں کے فریعہ سے یہ

معاصر کو اچھی طرح برداشت کرسکتا ہے :

چونکہ یہ بولی پآس کو اپنے زیر تصرف رکھتا ھے اِسی شہر سے فارس کی تجارت هندوستان سے هوتی ھے - بولن پاس کے قریب بجانب هندوستان شکار پور واقع ھے ﴿

جب قند شار سے کابل کو روانہ ہوئے تو ہمارا راستہ معفی پہاڑی ملک میں واقع تیا۔ راستہ میں بڑے بڑے چتان تھے اور نہایت نشیب و فرانی تھا مگر پانی خاصی طوح سے ملسکا تھا۔ بیس میلوں کے طے کرنے میں کہیں شانہ ایسا ہوتا کہ کوئی نہر یا کسی قسم کا کواں ملے «

کبیمی کبیمی چند خوفناک کابلی بھی ملجاتے تھے جو اپنی بندوقوں کو اِسطور پر تھاسے ہوئے تھے کہ معلوم ہوتا تھا کہ

و المهلوكون أوركوليان چلانا چاهاتے هيں ا

بالاخر شملوگ کابل اور اُسکے خندقوں اور فصیل اور بالا حصار تک پہنچے - آبادی ساتہ هزار هے اُسکے بازار میں فارس کے قافلے مغرب سے اور هندوستانی تجار مشرق سے اور بلوچی سودا بیجنے والے جنوب سے اسباب تجارت مہیا کرتے ہیں \*

## HINDL

# Translate into English:--

सड़क कत्थार जा ३०० गील के लगभग पहाड़ों की सुन्दर दिरियां, बहते हुये पहाड़ी नालों, और हरियारी चरियों के बीच हो कर चली गई है। पर कहीं र हम की घोड़े पर चढ़े एक दिन या दो दिन तक पहाड़ी और ऊसर देश हो कर मंज़िल मारना पड़ा था जहां पानी का नाम व निशान न था।

बहुत दिनों पर उस मुल्क की राजधानी कंथार के बाहर के बाग श्रीर बस्ती देख पड़े॥ उस नगर की क़िजाबन्दी बड़ी मज़बूती के साथ की गई है कि वह तोपों से दुश्मन का हमला रोक रख सका है॥

पारम की तिजारत हिन्दुस्थान की इसी नगर होकर जारी है क्योंकि बोलन पास नाम घाटी पर इसका अधि-कार है। और उस घाटी के हिन्दुस्थान की ओर शहर शिकारपुर बसा है॥

मन्यार से काबुल की सड़क पहाड़ी मुल्क होकर चली गई है। रास्ता पत्यरी और खड़बीहर है। पर पानी की कमती नहीं है। बीस मील तक चलते चलते एक न एक पहाड़ी नाला व कुआ़ रास्ते में मिल ही जाता था। जहां कहीं कीई र खदूप के भयानक काबुली हाथों में ऐसे तौर से बन्दूक़ लिये फिरते थे कि जान पड़ता था मानों हम पर चला ही तो देंगे॥

निदान हम लोग काबुल की पहुंचे जहां खांई श्रीर जानमारू किला बालाहिस्सार है। बाशिन्दों की गिनती साठ हज़ार की है। उस के बाज़ार की जिन्स पश्चिम से फ़ारस के बनजारे पहुंचाते हैं। पूरब से हिन्दुस्थान के श्रीर दिक्खन से बिलूचिस्तान के सीदागर पहुंचाते हैं॥

#### ARITHMETIC AND ALGEBRA.

J. Gannon, Esq.
Pandit Larshmi Shankar Misra, Examiners. RAI BAHABUR.

[N.B.—Great importance will be attached to accuracy in numerical results.]

Define "Notation," "Numeration"; and prove that "three times four "="four times three."

Reduce to a single fraction :-

$$\frac{919_{1}^{2}}{7.954} + \frac{4.100}{442_{3}^{2}} + \frac{7}{11} \text{ of } .07344.$$

3. The wine in a pipe when full is worth £19-98,-9d. How much has leaked away if what is left is worth £9-16g. 7 % d.?

In discounting a bill, what do you mean by "The Banker's profit"? If the Simple Interest on £023-18g-14d. amount to £17-98.-33d, exactly in 138 days, what is the rate of interest per cent, per annum?

5. Extract the square root of 99,980,001; and of 60 ft.
6. Define the following:—"term," "dimension of a term," "homogeneous terms."

7. Express in their simplest forms:—

(i) 
$$\left(1 - \frac{2xy}{x^2 + y^2}\right) \div \left(\frac{x^2 - y^2}{x - y} - 3xy\right)$$

(ii) 
$$(x-y+z)-(x+y-z)-(x+y+z)(x-y-z)-4yz$$

State and prove the two lemmas on which the proof of the rule for finding the G.C.M. depends. Find the G. C. M. of-

$$x^3 + 2ax^2 + 5a^2x + 12a^3$$
 and  $x^3 + 7ax^2 + 13a^2x + 4a^3$ .

9. Solve:-

(i) 
$$\frac{x-1}{x-1} - \frac{3}{5} \left( \frac{1}{x-1} - \frac{1}{3} \right) = \frac{23}{10(x-1)}$$

(ii) 
$$(a+b)v+(a-b)y=2a$$
  
 $(a-b)v+(a+b)y=2a$ 

10. A farmer bought equal numbers of two kinds of sheep, one at £3 each, the other at £4 each. Had by expended his money equally in the two kinds, he would have had two more sheep than he had. How many did he buy?

11. Find the square root of:—  $x^6 - 12x^5 + 60x^4 - 160x^3 - 240x^2 - 192x + 64.$ 

#### GEOMETRY AND MENSURATION.

A. W. WARD, Esq. BABU JADAB CHANDRA CHUCKERVERTY. Examiners.

1. Give Euclid's definitions of a plane superficies, a plane angle, a rhombus, the angle of a segment, and the angle in a segment. Enunciate the 12th axiom of the First Book.

2. Prove that, on the same base and on the same side of it, there cannot be two triangles having their sides which are terminated at one extremity of the base equal, and likewise those which are terminated at the other extremity.

3. From two points P, Q, on the same side of a straightline AB, draw two straight lines meeting in AB and equally inclined to AB; show that the sum of these two straight lines is less than the sum of any two other straight lines joining P, Q, to a point in AB.

4. Prove that, if the square described on one of the sides of a triangle be equal to the square described on the other two sides of it, the angle contained by these two sides is a right angle.

5. Divide a given straight line into two parts, such that the rectangle contained by the whole and one of the parts,

may be equal to the square on the other part.

6. A rectangle ABCD has a side AB produced to a point E, so that BE is equal to BC, show that the area of the rectangle is equal to one half the difference of the squares on AE and BD.

7. Prove that the angle at the centre of a circle is double of the angle at the circumference on the same base that is on the same arc.

8. Given the base, the area, and the vertical angle of a riangle; describe the triangle.

9. Describe an isosceles triangle having each of the ingle at the base double of the third angle.

10. The sides of a triangle are 17, 15, and 8 inches respectively. Find the length of the straight line joining the

middle point of 17 to the opposite angle.

11. A man observes the elevation of the top of a tower to be 60°. He then walks a distance of 300 ft., takes a turn of a right angle, and after walking 400 ft. more finds he is on the other side of the tower exactly opposite to his original position. The elevation of the tower is now found to be 30°. Find the height of the tower.

-12. Find the least possible length of fencing that can

include a triangular area of 10 sq. ft.

# ARABIC.—FIRST PAPER, TEXT-BOOK AND GRAMMAR.

MAULVI SYED AMJAD ALI, M.A., E.caminer.

1. Translate into English :-

جاء شاعر عند ملك بقصيدة بها يهده و قرأها بين يديد فلم يامر بجائزة له و رجع الشاعر خائبا خاسرا فبينا ان وقف علي الباب نادما حائرا ان خرج من القصر واهد من الغلمان مخبرا ان الملك اعطني الان عقدا من اللا لي الغالية لامراة راقصة يقال لها خااصة فانشد الشاعر بلا روية - شعر -

لقد ضاع شعري على بابكم «كها ضاع در على خالصه ولها انهي بالبيت الي الهلك الشحيم-غضب و امر بضرب عنى الفصيح-فق السرير-لا ينبغي للهلوك امثال هذا الا بتنقير - فحين ما اسطفوه الهلك وامر بانشاد ما انشد بين يديه وضع الوزير اصبعيه على عينيه فتفرس الشاعر بالحال و فهم ما اراد الوزير وقال شعر لقد ضاء شعري على بابكم «كها ضاء در على خالصه-فاستسو الهك و صفح عنه صفحا و امر له بصلة فرجح فرحا ثم سهم ظريف ما جري فاستظرت كثيرا وقال لم ارا عهى اذا قلعت عنه على المادة فرجم فرحا ثم سهم عنه الم الهنا المادة فرجم فرحا تم سهم عنه الم الهنا المادة فرجم فرحا تم سهم عنه المادة فرجم فرحا تم سهم فاريف ما جري فاستظرت كثيرا وقال لم ارا عهى اذا قلعت

- 2. Write out singulars of plural, and plurals of singular substantives as used in the above extract and supply their English meanings.
  - 3. Give English equivalents for the following, stating which of them are original Arabic and which simply Arabicized (بغزب), and in the latter case mention the original word so Arabicized.
  - اوربا انكليز بوسطة باريس كونت شرطه مُجلس البشورة ليرة شلين قرش قاددالجيش كاغذ البال \*
    - عرةرب and of الشعب and of الشعب
- أَبْرِأَتِ ثِلَاثِي مَجَرِهِ and mention the various ثلاثي مجَره that are in use and also those not in use, giving, at least, three instances of each of the former from various roots with their meanings.
- - 7. Write out Arabic conjunctions (حروف عطف) with their meanings in English, and illustrate their usages by examplesr
    - 8. Translate into English:-

اذا قربت ساعة يالها «وزازات الارض زازالها تسيرالجبال علي سرعة «كهرالسحاب تري حالها و تنفطرالارض من نفخة «هنالك تخرج اثقالها و لابد من سائل قائل «منالناس يو مئذ مالها تحدث اخبارها ربها «وربك لاشك اوحيلها و يصدر كل الي موقف « يقيم الكهول و اطفالها تري النفس ماعهلت محضرا » و لو ذرة كان مثقالها يحا سبها مالك قادر «فاما عليها واما لها

9. Write out the شریف from قران شریف upon which the above extract is based. If you, however, do not exactly remember this عررة you may give another of nearly equal

extent, and in either case write as legibly as you can and supply all vowel marks.

10. Analyze the fifth couplet in No. 8 and account for the singular verb tin the second hemistich of the same couplet.

## ARABIC.—Second Paper.

MAULYI SYED AMJAD ALI, M.A., Examiner.

1. Translate into English:

(الف) المدارس العبو مية في بريطانيا العظمي يصرت عليها من نفقة الجههور لتعليم العهوم و يصرت الاعتناء الزائد علي تهذيب النساء حتي انه يحسب عارا عليهن إن لايعر فن القراءة والكتابة - انه لما كانت العلوم مؤهرة عند العرب كان يوجد بينهم كثير من النساء الفاضلات و كان بعضهن مصنفات في اللغة العربية - و يبام للسيدات في بريطانيا العظمي بالخروج و حد هن و كذا هن في سائر البلاد الا فر نجية - بالحرية مطلقة للاديان في بريطانيا العظمي و لكل وأحدان يعبد خالقه حسب ما يلهمه ضميرة - الحكم القالب في اوربا هوالملي و الناس على وجه العلوم مواظبون على اشفالهم هوالملكي و الناس على وجه العلوم مواظبون على اشفالهم هوالملكي و الناس على وجه العلوم مواظبون على اشفالهم هوالم

(ب) قال صاحب الفلاحة اذا ام يثموشيء سى الفخل يأخف رجل فلسا و يقرب منها و يقول لغيرة اني اريد قطح هذة الشجرة لانها لا تثهر فيقول الاخر لاتفعل فانها تثهر في هذه السنة فيقول الرجل انها لا تفعل شيأ و يضربها ضربتين او ثلثه فيهسكه الاخر بيدة و يقول لا تفعل فانها شجرة حسنة و اصبر عليها هذه السنة و ان ام تفعل فافعل ما بدالك قال و اذا فعل ذالك فان الشجرة تثبر ثهوا كثيرا و كذالك غيو النخل سي الاشجار اذا فعل به هذا فانه يثهر و قال ايضا اذا قاربت بين ذكران النخل و انا ثها فانها تكثر حملها لانها

تستانس بالمجاورة و ربيها قطع القها من الذكران فلا تعمل شيأ اغراقه واأن اغرست الذكران وسط الاناث وهبت الريم فَخَالِطُتُ الْانَاتُ رَائِعَةً طَلَحُ الذَكْرَانِ حَمِلَتِ مِنْ تَلَكُ الرَّائُحَةُ كل انثى حوله \*

- 2. Translate into Arabic, adding diacritical marks (حُرِكات رسکری) to your translations :--

  - (1) I shall be ready in four minutes.(2) You should now be in the school.(3) Your companions are already there.

    - (4) Learn your lesson.
    - (5) I have a great desire to learn the Arabic language.
    - (6) Do you know his name?
    - (7) Do you understand?(8) No, I don't understand.

    - (9) I connot hear you.
  - (10) Write your (تننية) name at the bottom.
  - (11) Where are your (حمه) books?

  - (12) Where did you lay them?
    (13) I connot find my pen.
    (14) This pen will not write.
    (15) I cannot write with this pen.

  - (16) Stand in your proper places. (17) Stand before me.
  - (18) He has been absent four days.

  - (19) The school opens at six o'clock. (20) It is shut at ten.
  - (21) School closes at ten o'clock.
  - (22) Go and wash your hands.

  - (23) I wish I could speak like him.
    (24) Everybody understands him.
    (25) I have heard him speak.

  - (26) I did not understand what they said.
  - (27) He studies several hours at home.
  - (28) Good morning.
  - (29) How do you do ?.
  - (30) Very well, Sir, I thank you.

## PERSIAN.—FIRST PAPER.

Maulvi Abudl Jalil. Examiners.
Munshi Ram Kishen.

1. (a) Translate into English as literally as you can :-

روزے از فصل بہاران با جہتے از دوستان و یاران بہواے گشت و تباشاے صحرا و دشت بیرون رفتیم چون در موضعے خرم جا گرم ساختیم و سفرہ انداختیم سگے از دور آنوا دید زود خود را بانجا رسانید-یکے از حاضران سنگ پار ابرداشت و چنانکه نان در پیش سگان اندازند پیش وے انداخت سگ آنوا بوے کرد و بے توقف باز گشت هرچند آواز دادند التفات نکرد-اصحاب از آن متعجب شدند - یکے از آن میان گفت می دانید که این سگ چه گفت-که این بد بختان از بخیلی و گر سنگی سنگ میخورند از خوان ایشان چه توقع توان داشت و از سفرہ اینان چه تبتع توان گرفت «

(b) Name the book from which the above extract is taken. Who wrote it? Mention other works by the same author.

2. (a) Translate into English:

ميغرمودند- هرگام معنوي پيوند مجرد و مادي چنين (1) أُستوار باشد پيوستكي نفس ناطقه را با ايزد بيههال كه تواند گرفت ه

نىخستىن پايە بندگى آنست كە ھنگام ناملائم پيشانى (2) را بشكنج چىن ندهه و انرا تلخ داروے پزشك انديشيده

بشگفته روئني در کشد «

جهان صورت نبونه عالم معني است چنانچه در آن هرچه (3) بسپارند باز خواهند درین نیز به اندازه خرد کردار جویند بلاغت آن باشد که سخن باندازهٔ نیوشنده رود و بسیار (4)

معنی را باندک عبارت چنان برگذارد که در فرا گرفتن رنجے نرود و فصاحت آنکه در گذارد زبان کیم سیم نشود «

- (b) Frame sentences with the following phrases:—
- دست بر فشاندن دم در کشیدن شب بروز آوردن گردن افراختن رخت بر بستن بر پیشگاه دل تافتن \*
- 3. (a) Give examples to illustrate the various uses of jund u.
- (b) Give the exact force of the prefixes and suffixes in the following words:—
- ههراز نادرست كوهسار مرغزار غهاگين توپچي شاهوار صندوقچه \*
  - ساقي بنور باده بر افروز جام ما ساقي بنور باده بر افروز جام ما مطرب بگو که کار جهان شد بکام ما مادر پياله عکس رخ يار ديده ايم اي بيخبر ز اذت شرب مدام ما چندان بود کرشهه و ناز سهي قدان کايد بجاره سرو صنوبر خرام ما هرگز نهيرد آنکه داش زنده شد بوما
- مطرب جام يادة ساقي What is meant by
  - 5. (a) Explain fully in Persian:—
    - زیرا که تازه کردن غم کار عقل نیست تا نقد روزگار ترا کم زیان شود بگذار زانکه سود در ادبار عقل نسیت نه ند نه عقال عقل بیغگن زیا ہے دل کافیار عقال نیست که ادبار عقال نیست
    - کاغبار غم کم ست که ادبار عقل نیست مانند باغبان همه بر گل کند فشاط هردل که خستگی و ازخار عقل نیست

- مقطع and مطلع رباعي قطعه and مقطع
- 6. Translate the following into English and explain in Persian the allusions contained therein:—

خدایا بذات خداوندیت «بارصات بے مثل و مانندیت به لبیک حجاج بیتالحرام « ببدفون یثرب علیهالسلام بطاعات پیسران آراسته « بصدن جوانسان نو خاسته که مارا دران و رطهٔ یک نفس « ز ننگ دو گفتن بفریادرس and analyze the

following :— زخاک آفریدت خداوندپاک ﴿ پساے بنداافتادگیکنچوخاک

## PERSIAN.—SECOND PAPER.

MAULVI SYED KALAN, M.A.

MUNSHI RAM KISHEN.

\*\*Butter Communication\*\*

1. Translate the following passages into English:

دزدے بخانۂ رفت جوانے راخفتہ دید۔ پردہ کہ بر (a)
دوش داشت بگسترد۔تاھرچہ یابد دروے نہادہ بر دوش کشد۔
جوان بخلطید و درمیان پردہ بخفت ۔ دزد ھرچہ گشت چیزے
نیافت۔ چون ناگا مراجعت کرد کہ پردہ را بردارد و بیرون
رود جوان را دید که باهیبت شیران و هیئت دایران درمیان
پردہ خفتہ۔با خود گفت حالا مصلحت در آن است کہ ترک پردہ
گویم تا پردہ از روے کار بر نیفتد۔ پردہ را بخانہ بگذاشت
و از خاند بیرون شد۔ جوان آواز داد که دزدا در را به بند
تاکس بخانہ نیاید ۔ گفت بجان تو در نہ بندم زیرا کہ من
زیر انداز تو آوردم باشد کہ دیگرے روے آنداز تو آورد ﴿
درد باید که در هہم حال بابناے جنس آئین سلوک را (ا)

مری باید که دارد که گرد بابداج جسس آنین سلول را (۱) بران نهم سرعی دارد که گرد ملال بر خاطر احدے نه نشیند مثلاً چون بهملس بزرگے رائ یابداز پر گفتن و هرز خندیدن و حرکات ناملائم نهودن و سردم گزیدن و سخن بگزات گفتن و از

اظهار احتیاج و خود ستائی و نهائی اجتناب نهاید - و بهجلس نخوانده نرود و نرانده برخیزد تا موجب ملال خاطرها

در تواریخ مسطور است که سلطان سکندر اودهی (۵)

بجهال ظاهری آراسته بود و بکهالات معنوی پیراسته در ایام
سلطنت او نهایت ارزانی و اسن و امان حاصل بود و بادشاه
هرروز بار عام دادے و خود بداد خواهی خلق رسیدے و گاه
از صبح تا شام بل تا وقت خفتی بهماملات مشغول بود در
ایام سلطنت او دست تسلط زمینداران هند کوتاه شد و ههه
مطیع و فرمانبردار گشتند وقوی و ضعیف یکسان شدند و در
کارها انصاف ملحوظ داشتے و کهتر بر هواے نفس رفتے و
بخایت خدا ترس و بر خلق مهربان بود \*

2. Translate the following passage into Persian:—

Nádir remained at Delhi fifty-eight days. Before he quitted it he had a long secret conference with Muhammad Sháh, in which, it is supposed, he gave him such counsel as he deemed best to enable him to preserve that power to which he was restored. To all the nobles of the court he spoke publicly, and warned them to preserve their allegiance to the emperor. To those who were absent, he worte in similar terms, and after desiring them to continue to walk in the path of duty, he informed them that he and Muhammad Sháh were so united in friendship, that they might be esteemed as having-one soul in two bodies; and he concluded "May God forbid, but if accounts of your rebelling against you emperor should reach our ears, we will blot you out of the pages of the book of creation."

3. Render into idiomatic Persian the following sentences:-

(a) In a wise man are to be found all the higher virtues, but in a fool none but vice: hence a wise man is to be preferred to a hundred fools:

(b) A wicked man is to be avoided, although he may have learning to recommend him. A serpent may have a gem in his head; but is he not dangerous in spite of that?

(c) The friend who injures a man in his absence, but flatters him to his face, is to be avoided as a vessel that has poison inside and milk at the mouth.

(d) The learned man's poverty is better than the ignorant mon's wealth. The low easte of the learned is exalted above the high caste of the ignorant.

# SANSKRIT.—FIRST PAPER.

PANDIT ADITYA RAM BATTACHARYA, M.A., Examiner.

1. अस्ति मन्दरिभधाने पर्वते दुर्दान्तो नाम सिंहः। म घ सर्वदा पशुवधं विद्धान एवास्ते। ततः सर्वः पशुभिमिलित्वा सिंहो विज्ञाः। सृगेन्द्र किमिति सर्वपशूच्छेदः क्रियते। वयमेव सवदाहारार्थं प्रत्यहं एकैसं पशुं ढीक्यामः। सिंहेनोक्तम् एव-सस्तु। ततः प्रभृत्येकैकं पशुं ददतः समामते। अय कदाचिद् वृद्धशशकस्य कस्यचिद् वारः समागतः। सेऽधिन्तयतः;

त्रापहेतोर्विनीतिरतु क्रियते जीविताणया। पञ्चत्वञ्चेद् गमिष्यामि किं सिंहानुनयेन मे ॥

- (a) Can you detect any operations of Sandki it ল and বিশ্বধান হব ? Account for the modifications.
- (b) Change विद्यान into its Parasmaipada corresponding form and give the का भरवयान्त form of the same.

(c) Parse इन्तः and conjugate the root of सन्तराध m नाड्

(d) Decline the base of the nominal component of the

compound word मत्यहम्.

(e) Change सर्वे: पशुभिः सिंहो विज्ञमः ; गिरिशिस सर्वपशुण्यं दः विज्यमे into the active construction.

(f) Paraphrase (i.e., reproduce in simple prove) the stoket

in the extract given above.

यद्भावि न तद्भावि भावि चेन तद्ग्यचा । इति चिन्ताविषद्भोऽयमगदः किं न पीयते ॥

Paraphrase this couplet, and change the construction of the second half into the active form,

- हरणयक श्राह। द्विविधं वैरं भवति सहजं कृत्रिमंच। ायस श्राह भोःद्विविधय वैरस्य ल्वां श्रोतुमिच्छामि। Answer the question put by the crow.
  - 4. (1) पंच यत्र न विद्यन्ते तत्र वासं न कार्येत्।
    - (2) अतिदाने बलिबंद्धः सर्वमत्यन्तगहितम् ॥
- (a) Enumerate the persons and things to whom reference s made in extract (1).
  - (b) Parse कारयेत्।
- (c) Parse अतिहाने; and give the construction (अन्वय) of the sentence सर्वमस्यन्तगिहितम्।
- (d) To what Pauránika legend does the statement ৰলিব ভ্ৰ allude?
  - 5. गुणिगणगणनारम्भे न पति कितनी छुतम्भवा यस्य। तेनाम्बा यदि छितिनी वद वन्ध्या कीदृशी भवति॥ मतिरेव वलाद् गरीयसी यदभावे करिणामियंदशा। इति घोषमतीव डिण्डिंगः करिणो हस्तिपकाहतः क्षणन्॥
  - (a) Reproduce in simple prose these two stanzas.
  - (b) Give the vocative singular of अन्ना।
- (c) Give the प्रकृति and भरवय of the base of गरीयसी and decline it in the masculine gender.
  - 6. श्रागतस्य गृहं त्यागस्तयेव शरणार्थिनः । याचमानस्य च बधो नृशंसा गहितो बुधैः ॥ कुर्याच निन्दितं कर्म न नृशंसं कथंचन । दति पूर्वे महात्मान श्रापहुरूमंविदो विदुः ॥ श्रेयांस्तुमहद्रास्य विनाशोऽद्य मम स्वयम् । ब्राह्मणस्य बधं नाहमनुसंस्ये कदाचन ॥
  - (a) Translate these shlokas into English.
  - (b) Analyze the Sandhi in श्रेयांस्तु and state rule.
  - (c) Expound the समास in सहदारस्य and give the alternative form that the compound can assume.
    - (d) Conjugate the root of अनुमेस्य in नद् (present.)

तां सत्यनामां हृदतीरणार्गनां गृष्टेविचित्रेरुपणोमितां णिवाम् । पुरीगयाध्यां नृसहक्षतंकुलां प्रणास वे णक्रसमा सहीपतिः॥

(a) Reproduce the stanza in easy prose.

(b) Expound the sause of the underlined compounds.

SANSKRIT.—Second Paper.
Pandit Aditya Ram Bhattacharya, M.A., Examiner.

1. Translate into English:—

चदेति चिवता रक्ती रक्त एवास्तमेतिच। सन्यत्ती च विषत्ती च नद्दतामेक हपता ॥ श्रालनेर विल्वमानाणि प्रयन्ति न प्रयति॥ लायवं कम्मेसामध्यं खोट्यं क्षेत्रसहिष्णुता । दोपनयो अधिदीप्तिय व्यायानाद्पनायते ॥ त्वमेव नाता च पिता त्वमेव। त्वमेव वसुद्य सदा त्वमेव । त्वमेव विद्याद्विणं त्वसेव। त्वमेव सर्वं मन देवदेव ॥ सत् सङ्घाद् भवति हि साधुता खलानाम्। सापूनां न हि खत्तमङ्गमात् खलत्वन् ॥ येषां न विद्या न तपो न दानं ज्ञानं न ग्रीलं न गुणो न धर्मः। ते मृत्युलीके भुवि भारभूता मन्यक्षपेण सगाझरिता॥

Translate into Sanskrit:

(a) He who leaves his bed early in the morning and takes a walk and breathes the pure air of the field grows healthy every day.

(b) Look here, the birds are sweetly singing on the trees; the bees are sipping honey in the flowers; the swans are sporting in the lake; and the boys are plucking flowers from the creepers.

(c) There stood a large banyan tree in a forest. Many birds had built their nests on it and dwelt there. A serpent lived there in a hole below. He would eat the young ones of the birds. Once said a crow to the birds, "Let us place pieces of meat near the whole of a mungoose and as far as the hole of the serpent. The mungoose will certainly go to the hole of the serpent and will kill him." This being done, the serpent was killed.

# HISTORY AND GEOGRAPHY.

T. W. Arnold, Esq., B.A. Rev. A. E. Johnstone. Babu Abhaya Charan Sanyal, M.A. Babu Sarat Chandra Mukerji, M.A.

Examiners.

1. (a)-Upon what grounds did William of Normandy claim to be King of England?

(b) Show by a geneological table the descent of the York and Lancastrian Kings and subsequent union of the two houses.

2. (a) Distinguish between an Impeachment and a Bill of Attainder, giving the first instance of each.

(b) When and in what manner was Calais acquired and lost by England?

(c) Give the origin of the Whig and Tory parties.

3. (a) Write a short narrative of the American War of Independence.

(b) State the main provisions of the Reform Bill of 1832.

4. (a) State clearly the final cause of the decline and fall of the Mogul Empire in India.

(b) When and how did the East India Company lose respectively its trading monopoly and its political powers?

5. (a) Narrate with date the circumstances of the Treaty of Bassein.

(b) Describe the acts for which Warren Hastings was impeached in Parliament.

6. (a) What were the results of the following battles:-

Wandiwash, Assaye, Mecance, Sobraon, Korygaum?

(b) State Lord Dalhousie's reasons for the policy of annexation, and name the states that successively fell victims to that policy.

7. (a) What are the stages by the Trans-Caucasian route

from England to India?

(b) Name six large islands of the East Indian Archipelago. What channel separates the Asian from the Australasian groups?

(c) Describe the government of Japan.

8. (a) What and where are the following:—Tangier, Congo, Sydney. Alleghanies, Plata?

(b) What are the chief places of interest in a voyage up

the Nile?

- (c) Mention the chief productions of the Australian colonies.
- 9. (a) How is the direction of the earth's rotation indicated at night?

(b) Why is it that cloudy nights are usually warmer than clear ones?

(c) Explain the formation of dew and leabergs.

10. (a) What is the origin of underground caverns?

(b) State four prominent facts about the sea.

(c) What are the evidences regarding the existence of great heat inside the earth, and what useful purpose does it serve in the economy of nature?

# ENTRANCE EXAMINATION, 1892.

ENGLISH.—FIRST PAPER.

H. O. Budden, Esq. M. Crosse, Esq., M.A. W. C. Horst, Esq.

N. B.—Particular attention must be paid to nort writing and correct spelling.

- 1. Give the meaning of the following extracts:—
- (a) There can be, I think, no more useful or more sacred task, than assisting in forming the moral and intellectual character of a new society. It is the surest and best kind of missionary labour. But in our colonial society every man has lived to and for himself, and the bonds of law and religion have been so little acknowledged as the great sanction and security of society,—that one shrinks from bringing up one's children, where they must in all human probability become lowered, not in rank or fortune, but in what is infinitely more important, in the intellectual and moral and religious standard by which their lives would be guided.
- (b) In the promotion of a leader there is no reason to doubt that supermacy is almost unconsciously assumed by those endowed with vigour and courage, rather than from the accidental possession of greater bodily strength; and the devotion and loyalty which the herd evince to their leader is something very remarkable. This is more readily seen in the case of a tusker than any other, because in a herd he is generally the object of the keenest pursuit by the hunters. On such occasions the elephants do their utmost to protect him from danger.

Explain the following extracts:—

(a) None of us liveth to himself or dieth to himself.

(b) But like the skeleton at the feast

That warning timepiece never ceased—

"For ever-never!

.Never-forever?"

What motion is represented by the words of the clock.

- (c) Prompeii is the ghost of an extinct civilization rising up before us.
  - (d) But there is more in late repentant love Than steel may keep suppressed.

What is the force of may here? In what other senses is it used?

- (e) He looks the whole world in the face, For he owes not any man.
- (f) Spots made famous by the sword and pen Till each one is a shrine.
- (g) Greater he that ruleth his own spirit Than he who taketh a city.

(h) I have ample means at my disposal, and will remunerate you for whatever trouble I may put you to.

- (i) I am sure that the distinctions of moral breed are as natural and as just, as those of skin and of arbitrary caste are wrong and mischievous.
  - . 3. Give insimple prose the full meaning of the following stanzas: ---
    - (a) With them I take delight in weal And seek relief in woe; And while I understand and feel How much to them I owe,

My cheeks have often been bedewed With tears of thoughtful gratitude.

- (b) Stern Daughter of the voice of God' O Duty! If that name then love; Who art a light to guide, a rod To check the erring, and reprove; Thou who art victory and law When empty terrors overawe; From vain temptations dost set free, And calm'st the weary strife of frail humanity!
- 4. (a) What does the poet refer to in 3 (a) of the above question? Distinguish between to understand and to feel. What is the force of the prefix in bedeved? Explain the phrase thoughtful gratitude. What other kinds of gratitude can there be?

(b) What figures of speech are used in the second stance above 3 (b)?

> Point out and name the subscribe reatences in it. Parse the words, duty, love, reprove, free.

5. (a) "How blest must be the memory of their when like the setting sun, have left a trail of light behind them, by which others may see their way to a worthy life and a percental close!"

What other smiler illustrations (from a tree folling in the forest, the coral insect dyings done the writer give of the first that

we leave an influence behind an after we died

(b) "This is the state of man toodry he put a forth "The tender leaves of hope; to morrow his one; "And bears" &c.

Complete the figures as given in Shake specific lines. Whose words are these supposed to be, and what do they described

6. (a) Distinguish between the meanings of the following point of words :-

There was no sinful or criminal action that he failed to commit.

The deterioration and degeneration of words.

Falsehood and deceit were banished.

This will test your courage and fortitude.

(b) Give the meanings of the following:—

Beau-ideal; presence of mind; catastrophe; officious; specious.

7. Give the meaning, in simple English, of the following extracts which are not in your prescribed course :-

(a) The first great crisis in Bacon's life was the sudden death of his father, which recalled him from France, and by depriving him of four-fifths of his expected fortune left him at eighteen to fight his own way in the world. He had always been intended for the bar; he now began to study law in earnest. Not that he intended to be a lawyer only. He had already begun to see visions of philosophical and political reform, and his aim was to qualify himself for some public post which should provide him not only with a livelihood, but with leisure and influence—two things as necessary as meat and drink to the aspiring youth, who felt that he was "born for the service of mankind."

(b) My hair is grey, but not with years,

Nor grew it white

In a single night

As man's have grown from sudden fears: My limbs are bow'd, though not with toil,

But rusted with a vile repose,

For they have been a dungeon's spoil; And mine has been the fate of those To whom the goodly earth and air Are bann'd and barr'd—forbidden fare; But this was for my father's faith, I suffer'd chains and courted death.

# ENGLISH.—SECOND PAPER.

C. A. Andrews, Esq., B.A.) } Examiners. J. W. BACON, ESO., B.A.

T. W. ARNOLD, Esq.,

(a) Give the plural forms of:

Volcano, piano, grotto, mosqui to, staff, distaff, major general, commander-in-chief.

(b) What different meanings have the plural forms of the following words:—oustom, number, premise, minute?

(c) Change into correct possessive forms, without altering

the sense, the expressions in italies:-

(1) This horse belongs to some one clse.

(2) The house belonging to Charles Dickens is burnt.

(3) He applied for furlough for six months,

- (4) He paid the money for the sake of conscience.
- 2. (a) What change of meaning do the following words undergo when the annexed prepositions are added to them:—Break—in,—out,—down.

Pnt-off,-ont,-down.

(b) Explain the meaning of the following ideomatic expressions, and illustrate them by sentences of your own composing:—

From hand to mouth,—To beat about the bush.

To make good.—To pocket an insult.

To laugh in one's sleeve.-The way of the world.

3. Distinguish between the root and the stem of a word. Give the force of the prefixes or suffixes in the following words:—

Picturesque, misconduct, monarch, childish, uniform, withdraw, peninsula, sympathy, wholesome, manhood.

4. What are strong and weak Verbs? Give the preterite and Past Participle of—

Smite, bid, swim, slay, ride.

In the following sentences change the Verbs of the Active Voice to the Passive, and of the Passive to the Active, without materially altering the sense:—

(1) The cricket-match was played quickly.(2) The teacher found fault with his pupil,

(3) You are said to have warned him in time.

(4) They refuse him permission.

- (5) Having been once burnt, the clild dreads the fire.
- 5. Correct the following sentences, and state the reason of your corrections:—
  - (1) He told, with regard to my idle habits, if you do not study, that how you will pass.

(2) I shall come to Lucknow direct, but if I shall visit Cawnpore, it shall delay me two days.

(3) Such students will be allowed to compete who have

passed Entrance Examination.

(4) Everyone of the students, except you and I, have failed.

6. (a) Convert the following passage from the direct to

the indirect form of narration:

"Hercules," said the Goddess of Virtue, "I offer myself to you because I know you are descended from the gods, and that you have given proofs of that descent by your love of virtue. This makes me hope you will gain, both for yourself and me, an immortal reputation.

(b) Convert the following passage from the indirect-to

the direct form of narration:

The Goddess of Pleasure advised Hercules to be her friend and to follow her. She would lead him into the possession of pleasure. His whole employment in her service would be to make his life easy. She begged him therefore to come with her to the region of delights, and to bid farewell for ever to care and pain.

# TRANSLATION.—URDU.

ایک بارہ سنگا کسی شفاف جھیل سے اپنی پیاس بجھاتے وقت اپنی سینگوں کی خوبصورتی پر جنکا عکس اُسنے پانی میں دیکھا متعجب ھوا۔مگر اُسی وقت اپنی تانگوں کے نہایت پتلا پن کو دیکھکر یہ بولا کہ کیا افسوس کامقام ھی کہ ایسے خوبصورت جانور کو اِس طرح کے بیہوں اعضا ذیئے جاویں اگر میری تانگیں کسی قدر بھی میری سینگوں کے مناسب ھوتیں تو میں حقیقتاً کس قدر بھی میری سینگوں کے مناسب ھوتیں تو میں حقیقتاً کس قدر نفیس جانور ھوتا!! وہ اپنے دل میں یہ کہی رھا تھا کہ شکاری کنون کی آواز شنکر سخت پریشان ھوا۔وہ اُسی وقت جنگل میں بھاگا اور اپنے پیچھا پریشان ھوا۔وہ اُسی وقت جنگل میں بھاگا اور اپنے پیچھا کونیوالونکو اِتنا پیچھے چھوڑا کہ بیج ھی جاتا مگر بدنصیبی

سے اُسکی سینکیں ایک پست درخت کی شاخوں میں پھس گئیں اور یہاں یہ قید ہو گیا یہاں تک که وہ شکاری کتے آپہنسے اور اُنہوں نے اُسکو پہاڑ کر آکڑے آکڑے کردیئے۔اپنے اخیر وقت میں وہ چلایا : شم لوگ اپنے فوائد کی کس قدر فاقدری کرتے ہیں !اجی آانکوں کو میں نے ذلیل سمجھا تھا اُنہوں نے مجھکو بنجاشی دیا ہوتا اگر میری محبوب سینگیں مجھکو دخوکے سے تباشی میں نہ تاانہیں'' و

# TRANSLATION.-HINDL

Translate into English:-

एक बारहसिंगा किनी खच्छ तरीवर में प्रपनी प्यास की बुक्ता रहा घा कि उसने श्रापने चींगीं की परछाईं जल में देखी। श्रीर चनकी सुन्दरता में ने। हित हो गया। उमी समय अपने पैरों की पतलाई की देख बोला "कैमी दुःराकी बात है कि ऐसे खुन्दर जन्तु की ये अयोग्य अंग मिलें। याहा कैना उत्कृष्ट जन्तु में होर्ज यदि मेरे घेर मेरे मांगों के सरी हो होते।" अपने आप इन नरह बोलता ही रहा कि उमने शिकारी कुत्तों के भूकने का शब्द सन पाया और पर गया। तुरन बन की छोरे भागर। छोर पी खे दे। इने बालों के जागे इतना हो गया कि चचनमा होना। परन्तु दुर्भाग्यवग उमके सींग एक छोटे पेड़ के भारतें में फंन गर्ध और बह सटक रहा जवलों कि शिकारी कुत्ते शा पहुंचे शार उनका टुकड़ र कर चीर डाले। बारए लिंगा शक्ते शन्तकाल के समय जिला कर यों बोल चठा " हाय! इस शपने लाभकारी बस्त्शों की ठीक २ विचार नहीं कर सकी। " जिन घेरों की में तुच्य सनमता था वे मुकी बचा ले जाते यदि शेरे विय सींग मुक की धोखे में डाड कर मेरी सलाकाग न करते ॥

# ARITHMETIC AND ALGEBRA.

PANDIT LAKSHMI SHANKAR MISRA, M.A.,

RAI BAHADUR.

MAHA MAHOPADHYAYA SUDHAKAR DUBE. BABU JADAB CHANDRA CHAKRAVARTY, M.A. Examiners.

How is a fraction affected by adding the same number to the numerator and the denominator?

Prove that  $\frac{3+4}{4+5}$  is greater than  $\frac{3}{4}$  and less than  $\frac{4}{5}$ .

- -2. (a) Divide  $\frac{1}{3} \left[ 3 + \frac{1}{3} \left\{ 3 + \frac{1}{3} \left( 3 + 1\frac{1}{2} \right) \right\} \right]$  by 125.
- (b) Reduce  $\frac{1744}{1522}$  and  $\frac{1526}{5232}$  to their lowest terms and express their difference as a decimal.
- Forty men finish a piece of work in 40 days; if 5 men leave the work after every tenth day, in what time will the whole work be completed?
- 4. Find the difference between the Simple Interest and Discount of £330 in 4 years at 2½ per cent. per annum.
  - 5. Extract the square root of  $\frac{1000 \cdot 2001}{1000}$
  - Find the value of  $\frac{x+2a}{x-2a} + \frac{x+2b}{x-2b}$  when  $x = \frac{4ab}{a+b}$
  - 7. (a) Find the H. C. F. of  $x^3 x^2 8x + 12$  and  $3x^2 2x$
  - (b) Extract the square root of  $\left(x+\frac{1}{x}\right)^2-4\left(x-\frac{1}{x}\right)$
  - 8. Simplify:

$$\frac{a(a+1)+1}{(a-b)(a-c)} + \frac{b(b+1)+1}{(b-a)(b-c)} + \frac{c(c+1)+1}{(c-a)(c-b)}$$

9. Solve the following equation:

(i) 
$$\frac{(x+a)(x+b)}{x+a+b} = \frac{(x+c)(x+d)}{x+c+d}$$
.

(ii) 
$$\frac{m}{x} + \frac{n}{y} = a$$
;  $\frac{n}{x} + \frac{m}{y} = b$ .

10. If 
$$a:b::c:d$$
 prove that  $\frac{2a+3b}{4a+5b} = \frac{2c+3d}{4c+5d}$ 

في غير وقت ازيارة ولا يستعيرون منه ولا يتعرضون لها ياتيه فلو راره مثلا مضطجعا على قارعة الطريق لم يسالوه لاي سبب تغيل زاك بل ربها حسبوا ان اهل بلاده جهيعا يضطجعون مثلة وان في ذاك مصلحة لهم و اذا زارك احدهم و را عندك مثلا امرة اونساء لم يههه ان يسالك عن سبب زيار تهن مها لابد منه في بلادنا و كذا لو راوك تهاشي امرأة في الطريق او تخا صرها فكل منهم مشغول بههه و مههوم بشغله \*

2. Write with discritical marks and translate the following:—

صلي إعرابي معقوم فقرأ الامام قل ارعيتم أن اهلكني الله و من معي فقال الاعرابي أهلك الله وهدك أي شي كان من الدين معك فقطع القوم الصلوة من شدة الضعك \*

- 4. Give some of the meanings in which تفعيل is issued and illustrate your answer with examples.
- and explain why they عروف مشبه بالفعل and explain why they are termed مشبه بالفعل.
- 6. Give the second person singular feminine-imperative mood (صيغه راحد مونت حاضر امر) of—
- وينت وزن يخفون تعسر دحرجه ادهيمام تغي ساقي مواكلة تصحيم \*
- 7. Translate into English and explain allusion or allusions contained therein:—

اذا كنت في نحية فارعها ﴿ فان المعاضي تزيل النعم و حافظ عليها بشكر الآله ﴿ فان الآله شديد النقم فاين القررن و من حولهم ﴿ تفانوا جبيعا وربي الحكم

وكن موسوا شيت اومهسوا \* فيها تقطع العيش الا جهم مالوع دنياك مسهومة و فالا تاكل الشهد الا بسم سعامله دنياك مفدومة ي فالا فكسب المحمد الا بنام اذا تم اسردنا نقصه " توقع زوالا اذا قيم ا وكم قدر دب في غفلة ٥ فلم يشعر الناس عني هجم 8. Translate into English: and name the anthor: لا يعلم الغيب احله ولا يدفع الهوت رصل اكل شخل رجل الكيل قوم عملات الاعراق طهارة الاخلاق المحارة التعر عبد ان طوع « والعبد حران قنع ما كل قول يسبع « ماكسل نصم ينجع

ARABIC.—SECOND PAPER.

MAULVI SYED KARAMAT HUSAIN, Extensiner.

I. Translate into Arabic and give vowel marks to your translation :\_ I will so to that school to morrow morning. Physica to give my that book. Open your book. Where shall I booin? That is a level in the first book. Word. This is very easy. Do not read to loud. You to of too low. Begin at the second page, fourth him. All properties the to fig.

Lord of the Day of judgment. They we worship and from They We ask help. Lead us to the right Path. (an your pool. Arche) Tean speak a little. Lean real botter than I can great According to the man team of the I do not know it yet. Few read Arabic well.

قلها قرغ السنه بادالهمال من شعر و نظمه اراد أن يصبل مهاته و یسیر اذ قه طلع علیه سی ذاک الباب غالام صغیر السي فقيض علي به المدينال و قال له المفل كلم سيلي فانه يدعوك فدخل المتعمال مع الغلام الديب فافن له صاحب المكان

بالجلوس ثم انه قلام له شيئا من انواع الطعام فتقدم السند بان الحمال و اكل حتى شبع و قال الحمد لله علي كل حال ثم انه غسل يديه و شكر صاحب المكان على ناك فقال صاحب المكان مرحدا بك و نهارك مبارك فها يكون اسمك \*

- 3. Translate into Arabic:—
- (1) Now the Lord had said unto Abraham,—Get thee out of thy country and from thy kindred and from thy father's unto a land that I will shew thee.
- (2) And I will make of thee a great nation, and I will bless thee, and make thy name-great, and thou shalt be a blessing.
  - 4. Translate into English:-

.. ان جاء الحين لم يبق انن و لا عين - سلطان بلا عدل كنهر بالا ماء - شخص بلا أدب كجسد بلا روح - الدال علي الخبير كفاعله - لا يشكر الله من لا يشكر الناس - الوحدة خير من جِليس السّوء - عدو عاقل خير من صديق جاهل - الصبر مُغْتَا مَ الفرج - من يفعل الخيرات الله يشكرها-رأس الخطايا الحرص-حب آلدنيا والمال راس كل خطيئة - حال الاجل دون الامل-الجاهل عدو نفسه فكيف يكون صديق غيره - الشر قليله كثير-المحتندا جَدُنااليك - فهيتم الي المسجد - تذهب واكبين الي خالد-قعدت في المسجد- قعد زيد في السوق-انا قاعد على الكوسي - تكبر زيد - حررت هذا الكتاب - اذا طلعت الشهس الاح الصبح - تقاتل رشيد و خاله - قاتل زيد بكرا - انقطح الماء - تلاقي زيد و عمرو - ان تكرمني اكرمك - أن اهنتني اهنتک - اکتسب زید مالا - اجلس ایتهاالحبیب - امس جئت البيكم - لانشرك بالله - أن الشرك اظلم عظيم - لا تذهب من هنا - اجلس حبثها اجلس - جاء الولد باكيا - جلست عند

PERSIAN. FIRST PAPER. MAULVI SVED KARAMAT HUSAIN, MUALVI SYED KALAN, M. A.

1. Translate the following into English and give the moral of the Fable in your own Persian :-این حکایت شنو که در بغداده رایت وپرده را خلاف افتاد رایت ازرندم رام و گردر کاب ، گفت با پرده از طریق عتاب من و تو دردو خواجه تاشانایم و بنای و تو دردو خواجه سیمی میم سیمی میم برودم مین زخدت دهی نیا سودم گلت و بیگات دار سفر بیودم مین زخدت دهی نیا سودم گلت و بیابان و رات و گرن و غبار تو نه رنج آزوده نه حصاری نه بیابان و رات و گرن و غبار تو نه رنج آزوده ...

ر سرت رسود است وبسهرا قربت تو بیشتر است و بوئی قدم س بسعی بیشتر است و با کنیزان یا سمت بوئی قدم س بندی این با کنیزان یا سمت بر با کنیزان یا کنیزا روی آب به وسر کردان عبی بند و سر کردان مین ناده بای بند و سر کردان مین ناکردان عبی بند و سر کردان مین بند و سر 

following: -16,1, six original and transfer of the original and transfer of the original and response of the (b) What word or words are understood before and after the word j's in the above extract

(e) Analyze the last but one complet in the above extract. according to the Persian Grammar. 3.  $T_{ranslate}$  into  $Lu_{S}h$  the following:

عي تري ري و گفت سردان بار را به نيروي همت و

بازوی جهمیت کشیده اند نه بقوت تن و صحت بدن ، \* قطعه \*

بآري كه آسهان و زمين سر كشد ازان مشكل توان بياوري جسم و جان كشيد هيت قوي كن از مدد رهروان عشق كان بار را بقوت هيت توان كشيد

- 4. (a) How do the phrases باين گراتي and باين گراتي in the above extract stand, grammatically.
  - (b) What is meant by the phrase رهرران عشق, and how?
  - (c) Mention the allusion referred to in the above sales.
- 5. Give the English meanings of the following and mention as many Persian words or phrases as give the same meaning:—

پینے پیلے قیز سنگ پشت ، شاعر ، پنج پایک ، گرہ خوردن م

6. Explain how you get the date of accession of Jehangir to throne from the following couplet —

سال جلوس شاهي تاريخ شد چو بنهاد اقبـال سر به پاي صـاحبقران ثاني

7. Translate into English the following:

فرزند عاليجاه باظهار جاسوسان معلوم شد كه شاهراه از بهادر پور تا خجسته بنياد خالي از مخاطره نيست قطاع الطريقان مال بيوپاريان و مسافرين بغارت ميبرند و مترددين با منيت نهيتوانند آمد و رفت نهود هرگاه در قرب لشكر ما و شها اين حال بوده باشد واي برحال طرق دور دست معلوم ميشود كه منهيان اخبار معتبر بآن فرزند نهيوسانند از آنجا كه غفلت و بهروائي خلاف طريق رياست و جهانباني است كاتبان جديد بتهديد تعين نهايند و عهله و فعله پيشين را بسزا رسانند و فوجي مستعد مقرر سازند كه إستيمال مفسدان از بيخ و

کرده شاهراه از شر جماعت محرامیان پاک سازند ننگ به علمي تاکي گوارا توان کرد پیت د

من نہیگے۔ویم زیان کی یا بفکے سود باش ای زود باش ای زود باش ای زود باش

-: Translate the following into English بوسف گم گشته باز آید بکنهای غم مخور کبلهٔ احزان شوه روزی گلستان غم مخور این دل غبدید حالش به شوه دل بد مکن وین سر شورید باز آید بسامان غم مخور هان مشو نو مید چون واقف نهٔ زا سرار غیب باشد اندر پرده بازیها ی پنهان غم مخور باشد اندر پرده بازیها ی پنهان غم مخور در بیابان گر بشوق کعبه خواهی زه قدم سر زنشها گر کند خار مغیلان غم مخور ایدل از سیل فنا بنیاه هستی بر کنند چون ترانوح است کشتیبان زطوفان غم مخور

- 9. Explain the above in Persian, cluedating the allusions contained therein.
- 10. Write out, from memory, a dozen Persian complets, translate them into English and refer them to their author or authors as the case may be.

گر کاخ نه رواق زر اندودت آرزو است
زین پنچ پا بررن نه و زین چار در گذر
دار غرور نیست مقسام قسرار تو
منصور وار از سر این دار در گذر
با مار بهر مهره کسی دوستی نکرده
بر کن طبع ز مهره و از مار در گذر
چون میتوان بگلشن روحانیان رسید

سعی نہا و زین رہ پر خار در گذر ابن یہیں نشیہن قدس است جائے تو زین آشیان چو جعفر طیار در گذر

# PERSIAN.—SECOND PAPER.

MUALVI ZAKAULLAH, KHAN BAHABUR, SAMSULULAMA.

Examiners.

PANDIT BISHAMBAR NATH.

1. Translate the following into English:

در اخدار آمده که سلطان مصربا پادشاه روم طرح مواصلت انداخته دختر او را از بهر پسر خود خطبه کرد و هم دختر خود را در عقد پسروے در آورد-بسبب این وصلت رسل و رسائل از جانبین متواصَل گشت-و باتفاق این دو صاحب دولت هو قومهلكت بايكديگر آراستكي پذيرفت-و در أمور كلي وجزئي مراجعت براے یکدیگر کردندے و بے مشورت باہمی هیپیمہم شروع نفرمودند\_-روزي ملك مصر بقيصر روم پيغام فرستاد كه يسوان زنده حيات و عهده ژندگاني اند و نام ما بعد از وْفَاتُ مَوْ بِهِياتِ ايشان باقي نهي ماند-\* ديت \* زنده است کسی که در دیارش « ماند خلفی بیاد کارش پس ههت برانتظام حال و فراغ بال ایشان مصروف باید داشت وعنان عنايت بصوب جهعيت ووسعت معيشت ايشان معطوف جاید ساخت - و من بجهت پسر خود چندین نخایر و نغایس و بردة و سطور و ضياع و عقار مهيا كرده ام-از آن طرب راي جہان آراے آن حضرت در حسن اِهمهام بحال پسر خود چه اقتضا فوموده است جوناين بيغام بسيح قيصر رسيد بتبسيع قرمود کا گفت حمال یار نے وفا و محبوب نا پایدار است ازو حسابی نباید گرفت و بهتاع فانی دنیاے دنی فریفته نباید

شد - من يسر خود را بحليه أدب بيآراسته أم وخزانها ع مكارم

اخلاق براے او فخیرہ نہادہ ام-سال در معرض فنا و زوال است و ادب ایمن از تغیر اِنتقال-چون این خبر بہلک عرب رسید گفت راست میگوید -

انشكوت چون اين مكتوب بر خواند بر اسپي راهوار بر نشسته شتاب کنان به تبریز آمد و درشش ساعتی شب یازدهم شوال بدر سراے سلطان ناصرالدینشاء حاضر شدہ -و بدستیاری دربان و حاجب معروض داشت-که مرا امريّ واجب أُفتّاه کهّ درین نیم شب خویشتن را بدین رنیج و تعب انداخته و تا بدین جا تاخته أم-الجرم شاهنشاء إجازت كرد-تا حاضر ديشگاه شد-پس مجلس را از بیگانه به پرداخت-و انشکوت مضهون نامه را مکشوف ساخت-شاهنشاء آيرا که آيت يزدان بود چون کوه برجاے هيچ آشفتدرا عنگشت و انشكوت را رخصت إنصرات داد-و از پس آن کس بطلب میراز افضل الله و نصیرا الملک که این هنگام منصب وزارت داشت فرستاد-و اورا خاضر کرده قصدایی غائله را با او حدیث کرد-نصیرالملک از اصغاے این خبر پائ از سر ندانست همي خواست ديوانه شود و اگرنه از هُوش بیگانه گردد-شاهنشآ بانگ بر آورد که با خویش باش و راے خویش تیری مکیدایی هذری نباشد-مرد عاقل آنست که در مهااک پر آفت و مسالک مخافت عقل خویش را پریشید نسازدواز طریق حزم و رویت بهار پردازد-

2. Translate the following into Persian :-

He had a garden, filled with the choicest flowers; and to cultivate it was his favourite amusement. It happened that the cattle of the adjoining pasture had broken down the fence; and he found them trampling upon and destroying a bed of fine flowers.

He could not drive these ravagers away, without endangering the still more valuable productions of the next garden; and he hastened to request the assistance of the gardener. You "intend to make a fool of me" said the man, who refused to go, as he gave no credit to the tale of Mendaculus.

One frosty-day his father had the misfortune to be thrown from his horse, and to fracture his thigh. Mendaculus was present, and was deeply affected by the accident, but had not strength sufficient to afford the necessary help; he was therefore obliged to leave him in this painful condition on the ground, which was at that time covered with snow; and with all the haste in his power he rode to the nearest village, to solicit the aid of the first benevolent person he should meet.

His character, as a liar, was generally known: few to whom he applied paid attention to his story; and no one believed it. After losing much time in fruitless entreaties he returned with a sorrowful heart, and with his eyes bathed in tears, to the place

where the accident happened.

# SANSKRIT.—FIRST PAPER.

PANDIT ADITYA RAM BHATTACHARYA, M.A., Examiner.

- 1. Explain :—
- (a) प्राक् पाद्योः पतित खादति एष्ठमांसं कर्णे कलं किमपि रौति शनैविचित्रम्। छिद्रं निरूप्य सहसा प्रविशत्यशङ्कः सर्वे खलस्य चरितं मशकः करोति॥
- (b) श्रिप संपूर्णतायुक्तेः कर्त्तव्याः सहदो बुधैः। नदीशः परिपूर्णीऽपि चन्द्रोदयमुदीत्तते॥
- (e) वते प्रहारा निपतन्त्यभी हर्ण धनचये दीव्यति जाठराग्निः।

# श्रापत्सु वैराणि समुझसन्ति च्छिद्रेष्वनर्था बहुलीभवन्ति॥

- 2. (a) Conjugate the root of पत्ति and खादन in लिट् and of ईक्षन and ई: च्यति in लड्.
  - (b) Decline the base of सुद्धन: and आपरसु in all the cases.
- (c) In the extracts the visarga has in come places undergone transformation and in other places remained unchanged. Account for it in each case.
  - (d) How do you form the expression बर्झी भवन्ति?
- 3. श्रस्ति दािचणात्ये जनपदे महिलारोष्यं नाम नगरम्। तस्य नातिदूरस्यो महोच्छायवान् नानाविहङ्गोपभुक्तफलः कीटैरावृतकाटरश्ळायाश्वासितपियकजनसमृहो न्यग्रोधपा-द्पो महान्॥
  - (a) Expound the Bahubrihisamasa in the above extract.
    (b) In what cases do the declension of महोच्छाययान् and

महान् differ ?

- (c) Conjugate the root of अस्ति in লাজু and লিজ্
- 4. Translate into English or Hindi:-

एवं तस्य प्रवद् श्राक्षणंपूरितणराणनी लुट्यकोऽण्युपागत। तं द्रृष्टा श्रूपकेण तस्य स्नायुपाणस्तत्वणात् राणिहतः।
श्रृत्रान्तरे वित्राङ्गः सत्वरं एष्टमवलोक्षयन् प्रधायितः। लघुपतनको वृक्षमास्रदः। हिर्णयक्षय समीपवित्तं विलं प्रिविष्टः।
श्रूषासी लुट्यको मृगगमनाद् विषण्यवद्नो व्यर्षश्रमस्तं मन्यरकं मन्दं सन्दं स्थलमध्ये गच्छन्तं दृष्ट्वान्। श्रचिन्तयम्।
यद्यपि कुरङ्गो धात्रापहृतस्तथापि श्रयं कूम्मं श्राहारायं
सम्पादितः। तदस्यामिपेण मे जुटुम्बस्याहारनिर्शृत्तमंविष्यति।
एवं विचिन्त्य तं द्भैः सन्द्राद्य धनुपि समारोष्य स्कन्धे
कृत्वा गृहं प्रस्थितः॥

5. (a) Change the construction of the sentence मूपकण स्नायुपाशः खरिडतः into the active and of लुड्धको मन्थरकं हृद्यान् into the passive.

(b) Use finite verbs for the following participles: खिदत:,

श्रारूढः, प्रविष्टः, दृष्टवान्, स्रपह्तः, प्रस्थितः

6. Explain:

संहतिः श्रेयसी पुंसां स्वकुलैः स्वलपकैरिप ।
तुषेशापि परित्यक्ता न प्ररोहन्ति तगहुलाः ॥
श्रधीऽधः पश्यतः कस्य महिमा नोपजायते ।
उपर्युपरि पश्यन्तः सर्व एव दरिद्रति ॥

7. Render into easy Sanskrit prose the following:—

की सली नाम सुद्तिः स्फीती जनपदी महान्।

निविष्टः सरयूतीर प्रभूतधनधान्यवान्॥

प्रयोध्या नाम नगरी तत्रामी झोकविष्ठुता।

मनुना मानवेन्द्रेण या पुरी निम्मिता स्वयम्॥

प्रायता दश च द्वे च भोजनानि महापुरी।

प्रीमती त्रीणि विस्तीणी सुविभक्तं महापथा॥

राजमार्गण महता सुविभक्तेन शोभिता।

म्कपुष्पावकीर्णन जलिसक्तेन नित्यशः॥

# SANSKRIT.—SECOND PAPER.

PANDIT ADITYA RAM BHATTACHARYA, M.A., Examiner.

1. Translate into Sanskrit:-

(a) God maketh the sun to rise on the evil and on the good; and sendeth rain on the just and on the unjust.

(b) When thou givest alms to the poor let not thy left hand

know what thy right hand giveth.

(c) For where your wealth is there will your heart be also.

(d) Once upon a time some boys were playing near a pond. Seeing many frogs in the water they began to throw stones at them. Some of the frogs were killed and some were hurt. Where-

upon one of the frogs cried out "O hoys, it may be sport to you, but it is death to us."

- 2. Translate into English':-
  - (त) प्राक्तिक्यं न कर्त्तक्यं प्राग्तेः काठगतिरिप । कर्त्तक्यसेव कर्त्तक्यमिति चेद्विदो चिदुः ॥
- (b) कृते विश्वहिते देवो विश्वेश: परमेश्वर: । भगवान् भवति प्रीतो यतो विश्वं तदाश्रितम् ॥
- (c) शशिना च निशा निशया च शशी शशिना निशया च विभाति नमः। पयसा कमलं कमलेन पय: पयसा कमलेन विभाति सरः॥
- (त) एकदा द्वे मित्रे पिष गच्छतः स्म । अय भद्भक्षकस्तत्र समाययौ । ततो भद्भकं द्रष्ट्वा तयोरेकः सहचरः प्रागामयात पलायमानः तक्तमाक्रीह । द्वितीयम्तु उपायमद्रष्ट्वा सृतवत भूमी पपात । अय भद्धकः समीपमागत्य तस्य मुखनामा अवणादीनि चाप्राय तं सृतं विनिश्चित्य प्रतस्ये । शय गते भद्धके वृत्तादवतीय्यं वन्धुरएच्छत् । सखे भद्धकः किमुक्ता गतः । स प्राह । भद्धकेनोक्तं यो हि विपदि मित्रं मुझ्तिम कदापि न विश्वसनीय इति ॥

### HISTORY,

C. H. LINTON, Esq., M.A. B. MUTTI, Esq., F. G. HOUSDEN, Esq., M.A. Examiners.

in Britain. Point out what the English gained from their conversion to Christianity.

2. What led to the Barons' War in the reign of Henry III! What were the results of that war! Mention the principal events

of the reigns of King John and Edward 1.

- 3. Explain the growth of royal power in the time of the Tudors. State briefly what you know of the dissolution of the monasteries in the reign of Henry VIII. What was the new spirit that marked the reign of Elizabeth?
- 4. Give some account of the war of the Spanish succession and of the Seven Years' War.

5. (a) Write short historical notes on the following:—Shipmoney; Habeas Corpus Act; Petition of Right; Whig and Tory; Provisions of Oxford; Reform Bill (1832).

(b) State what you know of Oliver Cromwell; John Wielif;

Sir Robert Walpole; Lord North.

6. Give a brief account of the invasions of Mahmud of Gliazni. Mention briefly the principal events of the reign of Aurangzeb. Contrast his general policy with that of Akbar.

7. State what you know of the Rajputs, Mahrattas, and Sikhs. Give a brief account of the Sikh wars. State the final results of

those wars.

8. Mention the principal measures of Lord William Bentinck's

and Lord Dalhousie's administrations.

9. For what are the following men known in history:—Abul Fazl; Todar Mall; Warren Hastings; Lord Clive; Sir Colin Campbell.

# GEOGRAPHY.

B. D. Gordon, Esq., Rev. H. M. M. Hackett, M.A. Babu Madhu Sudan, Mukerji.

Examiners.

- 1:- Distinguish between a lake and a lagoon;—the bed and the basin of a river;—continental and oceanic island;—aqueous and igneous rocks; waves and currents of the sea;—anavalanche and a glacier;—the flora and the fauna of a country.
- 2. What are the principal causes which influence the climate of a country? On what is weather dependent? What are isothermal lines? And what isobars?
- 3. What and where are the following:—Abu, Baltoro, Canary, Douro, Elburz, Formosa, Gobi, Honolulu, Indiana Jelalabad, Kilanea, Liberia, Manipur, Negrais, Omsk, Panama, Quillimanc, Ranchi, St. Gothard, Tokio, Yucatan?

4. Briefly describe any five of the following:

The Sucz Canal, the Great Pamir, the Himalaya Mountains, New Zealand, Lake Victoria Nyanza, the Falls of Niagara, the Pampas of South America.

5. Draw a Map of India showing its chief mountains, rivers,

scaports, and inland towns.

6. Draw a Map of Africa showing the territories respectively under British, French, German, Portuguese, Italian, Belgian, Turkish, and Spanish influence.

7. What country is called the Land of the Rising Sen? Give

a social sketch of its people.

8. Name in order and briefly describe the chief places of interest which a coasting vessel would pass in proceeding from Shanghai to Aden.

9. Over what parts of the globe are the following weeful commercial products distributed: -- Coal, cocoa, cotton, iron, pet-

roleum, salt and silk?

# ENTRANCE EXAMINATION, 1893.

### ENGLISH.—First Paper.

# W. C. Horts, Esquire, Examiner.

- I. Write out the following passages in propsy be brief; use the simplest language you can; bring out the meaning fully; and explain each metaphor and allusion:—
- (a) Had our lives been spared. I might gradually have weared myself from the tenets of my own faith and inclined to thing; but in this last hour it were a craven thing, and a look, to yield to hasty terror what should only be the result of length and meditation. Were I to embrace thy creek, and cost down my forefather's gods, should I not be bribed by thy promise of heaven, or exact by the threats of hell? Olinthus, Not think we of each other with equal charity,—I honouring thy sincerity,—there pitying my blindness, or my obdorate conrage.
  - (b) O blithe new-comer! I have heard,
    I hear thee and rejoice:
    O cuckoo! shall I call thee bird,
    Or but a wandering voice?
    While I am lying on the grass,
    Thy two-fold shout I hear;

From hill to hill it seems to pass
At once far off and near.

- The red rose is a gladsome flower.

  Her thirty years of winter past,

  The red rose is revived at last;

  She lifts her head for endless spring,

  For ever lasting blossoming.

  Both roses flourish, Red and White,

  In love and sisterly delight.

  The two that were at strife are blended;

  And all old troubles now are ended.
- (d)-My youngest son, and now my only care, when he was eighteen years of age, began to be inquisitive after his mother and his brother; and often importuned me that he might take his attendant, the young slave who had also lost his brother, and go in search of them; at length I unwillingly gave consent, for, though I anxiously desired to hear tidings of my wife and eldest son, yet in sending my younger one to find them, I hazarded the loss of him also.

II. Express as clearly as you can what the following extracts mean:—

(1) Charity is the salt of riches.

(2) In thier conversation, which was long and sprightly, he discovered nothing of the barbarian.

(3) There was a manhood in his look,
That murder could not kill.

(4) Beneath the glistening wave the god of day,
Had now five times withdrawn the parting ray,

(5) The groves were God's first temples.

(6) In Persia, the great hot-bed of lies and intrigue, a man who does not tell a lie is indeed a phenomenon.

(7) He hath brought many captives home to Rome, Whose ransoms did the general coffers fill.

- (8) I was in my fifteenth year when I built these castles.
- (9) What are ye, monarchs, laurelled heroes, say, But *Ætnas* of the suffering world ye sway?
- (10) Sloth, like rust, consumes faster than labour wears, While the used key is always bright.
- III. Parse the words that are italicised in questions I. and II.

IV. How do the lapse of time and the flow of rivers resemble each other, and how do they differ? What lesson is the story of "Prence Azgid and the Lions" intended to teach? What is the difference between fame and true honour?

V. Write down the meaning of the following words: -cascade, trite, careen, strategy, interdict, pagoda, mendicant; and what

are :- Nairs, God's-Acre, Geber, Forum, Mara.

VI. What is iron? Where is it found? What different industries are connected with it? In what different states is it used? What is meant by pig-iron? What virtues has iron?

VII. Write down the meaning of the following:

To fight at close quarters. A matter of life or death. To weigh auchor. To lisp in numbers.

To weigh anchor. To lisp in numbers

Itching fingers. A twice-born man.

A palpable lie. (Elephants) in a state of nature.

VIII. Give in your own words the substance of the poem

entitled, 'the dream of Eugene Aram.'

(Your answer is not to extend over more than three pages of your answer-book.)

# ENGLISH.—SECOND PAPER.

# B. Eutti Esquire, Examiner.

I. Correct, if wrong, any of the following:—

(1) I have not got some cloth. (2) They have any cloth. (3) Have you got some cloth? (4) Have they got any cloth?

(5) He had many breads. (6) I have much loaves of bread. (7) He had some bread. (8) I have some loaves of bread.

(9) I have finished my letter last night. (10) Influence has raged in the city since Monday last. (11) He comes that he may see me. (12) He comes that he might see me.

(13) He goes lest he shall see me. (14) He goes lest he should see me. (15) He liked you better than he like me.

II. Parse the Italicised words in the following :-

The then King; water to drink; much has been done; fire thee well; to over-sleep oneself; honey tustes (west) the drums are beating; if he is not guilty, why do you punish him? if he be guilty, he will be fined; I am to tell you the truth, tried of this work. He must needs do this.

III. (a) When is an adjective said to be used attribut-

, ively and when predicatively ?

ار ده ا

Distinguish between Demonstrative adjectives and Demonstrative pronouns.

What is the resemblance, and what the difference between a Demonstrative pronoun and a Relative pronoun?

(d) In what different senses is the verb to be used?

N.B.—Give exmaples to illustrate your answer in each case (a,b,c,d.)

IV. Insert appropriate proposition in the blanks given below :-

(a) A man of honour adheres—his convictions and acts a sense—duty even if men rail him and think him weak understanding and wanting-common sense.

(b) Change the direct form into the indirect. The teacher became angry and said to his pupil: - "Why have you disturbed the class again in this way? I have told you before that when I am speaking you should be silent. Leave the room and do not return to-day."

V. Give the meaning of the following prefixes and suffixes in the under-mentioned words:-

A in ashore, arise, ashamed, apathy; be in between, bedim, behead, befall; en in darken, vixen, golden, maiden; age, in bondage, hermitage, tillage, brokerage.

VI. (a) Form two complete sentences to illustrate each of the following:—

Nominative absolute, cognate object, dative of interest, factitive object and object of manner.

(b) Exemplify the use of but as a relative, an adverb, and conjunction; of that as a Demonstrative adjective, Demonstrative pronoun, a Relative pronoun; of since as a preposition, an adverb, and a conjunction.

VII. Analyze the following sentences in the from givenbelow:-

The clause.	Kind of clause.	Connectives.	Subject.	Adjuncts to Subject.
	ndirect. object.  7  Direct object. 8		o Predi-	uncts to Pred. or Extension of Pred. 10.

(a) Even as the driver checks a restive steed, so do that, if then art wise, restrain thy passion, which if it runs wild, will harry thee away.

(b) What then biddest, I obey.

(c) My wretched, wretched soul, I know Was at the devil's price.
A dozen times I grouned; the dead Had never grouned; but twice.

VIII. Reduce the following compound or complex sentences into simple:—(1) The letter was taken to the wrong house and so it never reached me. (2) Turn to the right and you will find the house. (3) It is a sad thing that he died so young. (4) Tell me when and where you were born. (5) He was not a man who would tell a lie.

Reduce the following simple sentences into a compound one:—A poor Arab came suddenly upon a spring of sweet water. He had never before tasted any but brackish water. He thought such sweet water fit only for a king. He filled his leather-bottle from the spring. He set off to present it

to the king.

IX. Write down-

the plurals of-Norman, footman, man, servant, Lionte-

nant-Governor, Governor-General;

the feminines of—earl, bull, calf, sire, Mr., Executor; the past tense and past participle of—he (to lie down); lie (to speak false), die, dye, think, sink, buy; the diminutives of—swan, lamb, sack, seed, man.

X. State in the form of a letter of not more than ten lines, the profession you would like to adopt, and the reasons of your choice. N. B.—Date, address, &c., must be in critical in the proper places.

ENGLISH,—THIRD PAPER, TRANSLATION,—URDU.

BABU RAM MOHAN BANERJI, B.A., Extiminar, Translate into English:—

 $\Lambda$ .

ایک بارہ سنگانے کسی صاف جهیل میں پانی پیتے وقت

اپنے سینگوں کا سایہ پانی میں دیکھا اور اپنے سینگوں کے خَوْبُصُورِتَ هُونَے سے متحیر هوا۔ اُسی وقت یہ سهجهکر که میری تانگیں کیسی پتلی هیں اُسنے اپنے دل میں کہا که برے افسوس کي بات هے که شجه ایسے خوبصورت جانور کي تنانكيس ايسي پتلي هول-ميل كيسا شاندار جانور هوتا اگر ضرف ميري تنانكين ويسي هي خوبصورت هوتين جيسے ميرے سبینگ هیں۔اِس خیال میں تھا کہ شکاری کتوں کے ایک غول كا بهونكفا اور شكاريون كي آواز سنكروة يكايك چونك پرا \* اِن آوازوں کو سنکر اسنے میدان میں نہایت تیزی سے چوکري بهري اور کتے اور شکاري لوگ اِسقدر پيچھ چهوت گئے کہ وہ آن سے بیج سکتا تھا۔ لیکن ایک گھنے جنگل میں گھس جانے سے اُسکے سینگ شاخوں کے درمیان پھنس گئے اور وهان وہ جکرا پرا رها یہاں تک که کتے اِسکے پاس پہونچ گئے اور اُسکو تَکرِّے تَکرِّے کردالا۔آخر وقت میں اُسنے اپنے جي میں کہا کہ جو کچہ هملوگوں کے لئے نہایت مغید هوتا هي آسکو هملوک کیسا بے قدر جانتے هیں۔جن تانگونکو میں ناچین سبجهتا تها وے مجهکو اس سے بچالے جاتیں اگریہ سینگ خِنْهُو مِينَ أَيْسًا نَازَانَ تَهَا مِجْهَكُو هَلاكت مِينَ نَدَالْتُمْ \*

قریب قریب هر شخص نے خاندان راتهس چا دیلد کا حال جو جہاں میں سب سے زیادہ دولتہند هوا سِنا هی اُسکی دولت و بزرگي ايک مشهور و معروف ايهاندارانه فعل کي وجهم سے قائم ہوئی جو آسکے خاندان کے ایک شخص کی تاب سے قریب آیک صدی کے گذرا ضادر هوا تھا اُسوقت وہ اول کھم برے دولتمند نہ تھے ﴿

انقلاب سلطنت فرانس کے زمانہ میں ملک جرمنی کے شہر فرنكة ورت ميس جو دريا ميس پرواقع هي ايك يهودي صراف قلیل البضاعت لیکن نیک نام مسبی موزز را تهس چادیلد رهتا تیا۔ جب فوج فرانس نے جرمنی پر خورج کیا تو شہزادہ هیسی کیسل کو اپنی ریاست جوسی پر حروج دیا دو شهواده فرنکفورت میں هوکر گذرا تو اسنے موزز راتهس چائیدا سال اسکا در کثیر اور کچه بیش بها جوا اور در المانت رکم نے ور نہ غنیم کے هادم پر جانے کا احتمال ھے۔ اِس یہونی نے اسقدر مال اپنی تحویل میں اینے سے انکاء کیا دوتا ہے۔ انکار کیا شوتا ہے جب موزز نے دیکھا کہ شہزادہ کو کوئی درسرا فریعہ اپنی دوات کی حفاظت کا نہیں ملتا ہو ہوسی افر کار اوسکے رکب لینے پر رضامند دنوگیا لیکن اوسکی رسید دفت کرچکا تیبا مگر اوسنے اپنی دولت جو تعداد میں صوف میں فیاد دورت کی دولت جو تعداد میں صوف دراد دورت کی کوشش نہیں کی ۔ جنانچہ فرانسيسون نے اوسکے قبضہ ميں اور زيادہ دوات هونے کا احتمال ند کرکے اوسیکولے لیا۔اگروہ برخلان اسکے بہانہ کرتا کہ اوسکے کھی دولت نہیں ھی تو وہ ضرور تلاش کرتے جیسا کہ انہوں نے کئی موقعوں میں کیا تھا اور ممکن تھا کہ نکال كركل دولت المنجاتي حب شهر كو وي جهوركر چلے كئے تر بن بوت بیج ہے۔جب سار دو وہ چھوردر چھے دمے ہو اوس مایں سے تھوڑاسا روپید لیکر اپنے کام میں لایا۔ اوسکو کاروبار مایں سو سبزی حاصل ہوئی اور جلد کہا کر اپنے ذات خاص کي بهت دوات جمع کي ٥ چند سال بعد جب اس و امان پهر قادم هوا اور شهزاده

دیسی کیسل اپنی ریاست کوواپس آیا وہ فرنکفورت کے صراف كے ياس جانے سے كسيقدر خائف تھا كيونكه وہ خيال كرتا تھا گوفرانسیسیوں کے هاتم، اوسکا مال و متاع آیا بھی نہو مگر ممکن هی که موزز بهانه کردے که ولا لئے گئے اور آننے پاس کل رکہ چھوڑے مستر راتھس چائیلڈ نے جب اوسے اطّلاع دی کہ کل دولت اوسکی معفوظ و واپسی کے لئے موجود ہی اور زر نقد پر پانچ روپیه في صدي سود علاوه-تو شهزاده بهت هي متعجب هوا ساته هي اِسكة صراف نه يه بهي بيان كرديا كه كسطرح اوسنے اوسكو بچايا تها اور اوسكا تهوراسا روپيه النبي كام مين لانے كي نسبت يہ كهكو عذر و معذرت كي كه أوسكي حفاظت مين مجه ا پذي سب ذاتي دولت تصدق كرنا پرتی مستر راتهس چائیلد کی وفاداری سے که جسکی امانت مين اوسكا أسقدر زر خطير تها شهزاده آيسا متاثر هوآ كه قليل شرے سود پر روپیه اوسی کے قبض و تصرف میں رهنے دیا اور نیز اپنی مشکوری ثابت کرنے کے آئے اوسنے اس آیماندار يہودى كي ساجني كي شاهان يورپ سے سفارش كردي چنانجه موزز سے بہت برے برے معاملات میں قرضه رصول کرنے کے اللے كام ليا كيا كه جس سے اوسكو منافع كثير حاصل هوئي \* زمانہ ترقی کے ساتھ اوسکی دولت بیصد ترقی کرتی گئی۔ اور آننے تیں بیتوں کو اسی قسم کے کاروبار میں یورپ کی تين بري دارااسلطنتون يتمني لندن و يبرس و ويانا ميل لگا دیا۔ چنانچہ وہ سب کامیآب هوئے وہ دنیا کے غیر عہدہ وار اوگوں میں اعلیٰ درجہ کے دولتمند هوے جو بیتا لندن میں مسکی گزیں تھا ستر لاکہ پونڈ استرانگ چھوڑ کر موا دیگر اوسکے دو بیتے شاید کچهه کم دولته در نہیں هیں اور

بيرن كا خطاب يائع هرئع هين \*

# ARITHMETIC AND ALGEBRA.

# J. Gannon Esqu., Examiner.

1. Two recurring decimals are added together; prove that the number of digits, in the period of the result, cannot exceed the product of the numbers of the digits in the original periods.

2. Find the value of 54 of 3672 of 1 mile, 5 fur., 30 poles.

4. Find by practice the cost of 10 cwt, 3 qrs, 23 lbs, 8 oz, at £ 1-5-8 per cwt.

5. A sum of money was divided among to 5 people, 4 of them received respectively 15. 45, 11 g or the whole, while the 5th received £ 105-3 6. What was the sum divided?

6. An oz., of standard gold, one tweltth of which is alloy, is worth £ 3-17-10½, how many soveregue, would be coincil from 36 lbs. S oz. of pure gold?

7. Find the square root of 6246 057021 and of 71 174.

8. Simplify

(a) 
$$\binom{x-y}{x+y} = \frac{x^2-y}{x^2+y}$$
 
$$\binom{x+y}{x-y} + \frac{x^2+y}{x^2-y}$$

(b) 
$$\frac{2}{bc} + \frac{bc}{(canaba+ca)} + \frac{2}{ca} + \frac{ca}{(ab,bc)} + \frac{2}{ab} + \frac{ab}{(backer)}$$

9. Find the H C D of

$$2x^{3} + 2x^{3} + x^{2} + 3x + 6, 4x^{3} + 2x^{3} + 3x + 9,$$

10. Solve

$$\begin{array}{ccc} (a) \ 5 + c & = \frac{20}{5} \\ 3 - \frac{1}{4 - c} & = 5 \end{array}$$

(b) 
$$\frac{x-a}{b-a} + \frac{x-c}{b-c} = 2$$
.

(c) 
$$\frac{x-a}{c-a} + \frac{y-b}{c-b} = 1$$

$$\frac{x+a}{c} + \frac{y+a}{a-b} = \frac{a}{c}$$

11. If I subtract from the double of my present age, the treble of my age six years ago, the result is my present age. What is my present age?

12. What is involution? Find the square root of  $1-4x+10x^2-20x^3+25x^4-24x^5+16x^6$ .

13. If 
$$\frac{a}{b} = \frac{c}{d} = \frac{e}{f}$$
each of these ratios = 
$$\left(\frac{pa^3 + qc^3 + re^3}{pb^3 + ad^3 + rf^3}\right)^3$$

# EUCLID AND MENSURATION.

J. A. D'CRUZ, B. A., Examiner.

N.B.—To obtain full marks, candidates must make neat figures, and quote the authority for each step in Euclid.

I. Define a parallelogram, a secant, a sector, a segment of a circle, converse propositions, and reciprocal proportions.

What is the difference between "five feet square" and

"five square feet."?

II. If two triangles be upon the same base, and on the same side of it, and have their sides which are terminated in one extremity of the base equal to one another; the sides terminated in the other extremity of the base are unequal:

III. If two triangles have two sides of the one respectively, equal to two sides of the other; but if the angle contained by the two sides of one be greater than the angle contained by the two sides equal to them of the other: the base of the one which has the greater angle is greater than the base of the other.

IV. A straight line bisecting the two sides of a triangle

is parallel to the base.

V. The rectangle under the sum and difference of two straight lines is equal in area to the difference of the squares on those lines.

VI. If three points are not in the same straight line, a circle may be described whose circumference shall pass through them.

VII. To construct an isosceles triangle, in which each of the angles at the base shall be double of the angles opposite to the base.

VIII. A ladder placed in a street reaches a window 32 feet high making an angle A with the wall. On being turned round without removing the foot, it reaches a window 24 feet high on the other side of the street, making an angle (90°—A) with the wall. Find the breadth of the street.

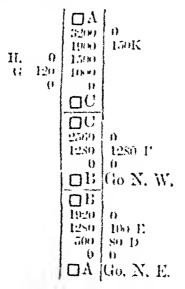
IX. Having given the three sides of a triangle, to find the radius of the circle described about it.

X. The three sides AB, AC, BC, of a triangle are 63, 75, and 77 feet respectively. Find the length of the perpendicular from A on BC.

IX. What is a cross? Describe how the situation of the perpendicular to a straight line, from a given point without it, may be determined with the aid of the cross.

XII. In a quadrilateral figure ABCD, AB=BC=CD=60 yards, AD=80 yards, and the angle DAB is a right angle. Find the area of the figure.

XIII. Make a rough sketch of the field, and find its area from the following measurements in links. The boundary line BFC is an arc of a circle.



## ARABIC.

MAULVI SYED AMJAD ALI, M.A., Examiner.

1. Translate into English:

هذا ما كان من امرها و اما ما كان من امر سيدها نعبة فانه اتي الي داره و جلس علي فراشا و نادي يا نعم فلم تجبه فقام مسرعا و نادي فلم يدخل عليه احد و كل جارية في البيت اختفت خرفا من سيدها فخرج نعهة الي والدته فوجدها جالسة و يدها علي خدها فقال الها يا امي أين نعم فقالت له يا ولدي مع من هي اوثق مني عليها وهي العجوز الصالحة فانها خرجت معها لتزور الفقراء و تعود فقال و متي كان لها عادة بذالك وفي اي وقت خرجت فال خرجت بكرة النهار قال و كيف اذنت لها بذالك فقالت له يا ولدي هي التي اشارت علي بذالك

- (2) Re-write the above with vowel-points carefully set over each letter.
- (3) Write down the roots of the following:
  قرأش و سيد و جارية و عادة و اشارت و اختفت
  - (4) Translate into English:—

رجل ظريف كان اعتاد السفر في البلاد ليجرب الأمور من احرال العباد فاتفق ان وصل الي بلد و تفحص عهن يتفرج من رويته و روايته و يقتبس من انوار فراسته و درايته فاشاروا الي رجل من الكبراء يقال له ابوالهكارم فخاله كاسهه و اشتاق ليستريح زمانا من محن السفر و الهظالم فلها زاره وجده مخالفا للكنية فتنفص و رجع عديم الهنية فاذا استحسوا من بشرته آثار الهلال قال واحد منهم كيف الحال فاجاب لها دخلت عليه لم ارابنا من ابنائه لديه

as you can. Why wil and not in instead?

الففل في الابثار «رالجود في الاعسار (6) Translate into English:

بذل فضول البرال « ايس من الافضال الكلب بعدد الاكل « يتوك كدل فضدل

الدهو كالميازان في شاهد العيان لكرين ديات والمالية العيان في شاهد العيان في شاهد العيان في مركن وكفتيات والمالية العيان المالية المالية العيان المالية العيان المالية العيان المالية المالية

(7) Name the author of the above verses and explain the

simile therein.

simile therem. الوالدين كليم المساه العلم المساه الدين كليم المساه الدين كليم المساه المساه

وبر تصبس الاتقيال مهذبا المربي وبر القربي وبر الاباعد

و قارن اذا قارنت حر امرًدباً عفيفسا زكيا منجزا المهواعد

وكف الاذي راحفظ اسانك رارتهب والمعي الاحرارزين المشاهد وغض عن المكروة طرفك راجتنب في ودالخليل المساعد

(9) Make a list of the set and purity of spends contained in the above complete. Mention the kind of which in اذي الجارر استهسك بحبل المحامد

in one again company and analyze the first hemistich or sexue ARABIC. - SECOND PAPER.

MAULYI SYED AMILYD ALL, M. A., Ecomingo, 1. Translate the following into Arabic, and put very care-

She called him. She will go home. He came to him. She came to her. He came to her. Then the first will the first of the firs fully all the rowel marks: came to her. The came to her. She eather to him. I wo ment to her. The came to her. How do you do. Yery well. Little came.

One woman went out. Do you know Archie! I have been studened it for the last four name.

prinses are one to the last four years. It is a difficult I have been studying it for the last four years.

language. It requires very careful study. Contentment is the first quality. Half a loaf is better than no bread. Every thing has an end. All men are like one another. Their father is Adam and their mother Eve. Keep silence often. Be contented with your daily bread. Disobey your vicious inclinations. I long to know something about our country. I shall be happy to gratify your wish. Under the British Government our lives and properties are safe. Owls are birds that fly by night. They have large heads, great eyes that jut forward, strong hooked bills and crooked claws.

2. Translate the following into English:

تبارک الله احسن الخالقین و الحید لله ربالعالیین فیم فیمت اسس الیا اسوق واشتریت هناک خبزا من الخباز ثمجنت الی مکانی- ثمجاء الوقت فنهضت وقیمت متوجها الیاداری فلم اصل الیاداری الاورسل الهاک قد هجیوا علی و حیلوفی حیلا عنیفا و فهبوا بی الیه فوجئته قاعدا علی کرسی وهو غضبان فقال یا اسحاق اخرجت عن الطاعة فقلت لا و الله یا منک قال فیما قصتک اصدقنی الخبر فقلت نعم ولکن فی حلوة فاشار الی من بین یدیه فذهبوا فحدثته الحدیث و قلت له انی و هدتها بعضورک قال احسنت ثم اخذنا فی لذتنا ذلک انی و هدتها بعضورک قال احسنت ثم اخذنا فی لذتنا ذلک الیوم و الهلک متعلق القلب بها ش

PERSIAN.—First Paper.
Munshi Ram Kishen, Examiner.

تالینوس حکیم ابلهی رادید دست درگریبان دانشهند در (۵) جائینوس حکیم ابلهی رادید دست درگریبان دانشهند در (۵) و بی حرمتی میکرد-گفت اگر این دانا بود در کار اربا نادان بدینجا نوشید در که گفته اند « مثنوی « در عاقل را نباشد کین و پیکار « نه دانا دستیزد باسبکسار اگر نادان بوحشت سخت گوید «خودمندش بنومی دل بجوید و صاحبدل نگه دارند مو ده همیدون سرکش و ازرم جو در گراز هر دوجانب جاهلا نند « اگر زنجیر باشد بگسلانند و گراز هر دوجانب جاهلا نند « اگر زنجیر باشد بگسلانند

نابینای در شب تاریک چراغ بدست و سبوے بردوش(۱) در راحی میرفت-فضولی در رائا باو درچار شد و گفت ای تادان ررزوشب پیش تو یکسان است و روشنی و تاریکی در چشم تو برابر این چراغ را فائد پیست-نا بینا بخندید که این چراغ از بهر خود نیست از براے چرن توکور دل بیخبر است تابا می پهلو نزنی و سبویم نشکنی \*\*

فرزند زادهٔ عزیز س از دین و دنیا ستفید و فیورزمند (ه)
باشند - قلعهٔ تر کند و نول کند را از اشقیای ضلالت پیونه
گرفتند اللحد الله کارهای آن نورالابصار ررز به سزاوار
قعصین و آفرین بسیار است - شهشیر خان شهاهم مدبر
درستی است - کار خرب از آدم خوب می آید - ترکند را به
شهشیر گذی موسوم کردم - یکی را گرفتن و دیگری را دعوی
کردن خاصهٔ حرص بیت الهال عالهگیریست «

II. (a) Explain the construction of and give their English meanings:— 2502, -250 -

آزرم سو ساگريوان سافيوند زاده شمشيو

(b) Show by examples how compound adjective, are formed in Persian.

III. Translate into English -

اگری از شهر های قدیم بزرگ هندوستان است بر کنار (۵) دریای جهنا قلعه کهند داشت پدرم پیش از توالد من آنرا انداخته قلعه از سنگ سرخ تراشیدی بنا نهادند که روندهای عالم میل آن قلعه نشان نهی دهند در عرض پانزدی شانزدی سال باتهام رسید مشتمل بر چهار دروازی و دردریچه سی و پنج اک رویید که یک ده بازدی هزار تومان رائجا ایران و یک کور پنج اک خانی بحساب قوران باشد خرچ ایس قلعه شدی

میفرمودند خواب و خور براے آنست که نیروے (b) حستجوی ایزدی رضا فراهم آید-بیچاره آدمی از بیدانش مقصود یندارد \*

میفرسودند-دریند پذیری نظر بر سال و ثروت نیفته خورد و تهیدست را از دیگران در حق نیوشی باز نداند \*

IV Distinguish between نه and متعل and

and فعير متصل and نهي and نهي and فعير متصل and فعير متصل. Give an example of each.

V. Explain in Persian:-

یعقوب را دو دیدهٔ حیرت سفید شد آوازهٔ زمصر بکنمان نهی رسد

از حشبت اهل جهل بكيوان رسيده اند

جز آه اهل فضل بکیوان نهي رسد زمست آه دائسم دود آهسش

مساد ۱۴ مادسم دود اهسش بخون سر شسدی چتر شیاهش

بعرق سر ستندي چمر سيامس زخور شتيد حوادث هيپج گاهي

نبودے غیر آن چتـرش پنـاهي

VI. Translate into English and analyze the last couplet of (b) according to Persian Grammar:—

اے پسر هہنشین اگر خواهي (۵)
هہنشیني طلب زخون بهتر
مثل اخگر که با ههه گرمي
سرد گردد بوصل خاکستر
ورچه باشد فسرد لاطبع انگشت
چون باتش رسد شود اخگر
گر تو خواهي که نيک نام شوي
دور باش از بد اے عزيز پدر

خداوند گارا نظر کی بجود ( $\delta$ ) که جن آمد از بندگان در جود

[ 80 ] گنه آید از بندهٔ خاکسار بالمیت عفی فداوندگار آبی تاجوران که تاجدار آند (۵) بر درگغ او جبین گزار اند این گنبه آسیان که بالاست VII. Write out from memory any gel; of ele ye and bring out its sense in your own Persian. خشتريست ز آستان والاست DERSIVY -- SECOND LABOR. L. Give a free, and not a word for word translation into W. WHILIAMS Esq. Lines on S آورده اند که سلطان روم را باعزیز مصر مخالفت افتاد (۱۱) و نشکو کشیده قصد یکدیگر کردند و در نشکو دوسیان کسے بون و سر مورت که عادل شدے عزان مصر را از آن آگام کردی و English: جون آخبار آن دهد راست برد عزیز بر او اعتبان کره - این سخس را بد قیصر رسانیدند مطالقاً بدان التفات نکره و بروے آنکس نیاورد تا بصات نزدیک رسید قیصر اور ا بخواند و بعبه ی در بیش خود مشغول سلفت و در آثنا کے آنحال سوال لشكر و اموال سيام خودرا طلبيد و نفت ا، راے عزيز خواص بار عام آو بد من نوشته آند و سو کند خورد ی چون صف مصاف راست شود عزین را دست رکودن استد پیش من آوند شها دل فارغ دارید و بیترت تهام کروی بنار آید - آن مرد چون ایس سنخس بشنید مشتوار شد هون از سملس بیرون آمد در حال ايس مَعْنَى رَا نوشتَهُ كَيْنِ عُزِيز فُرسْنَاهُ عَزِيزَ هُون ايس حال معلوم کود بنرسید و توتف کردن معلمت ندید و مصاف نکوده روت بگریز نبان و تیشر در عقب او نشکر فرستان و اسباب و اموال عزیز بدست آزرد و بدین یک تدبیر سیاهے را منهزم - هن که بن ته دیر کارے کون شاک از دست داد

قطعه ا

ملک میخواهی بنای کار بر تدبیر نه فهر تسخير مهالك الشكر وخيل و چشم جهله در کار اند ایکن زین همه تدبیر به يوسف خان والي ولايت كشهير هموارة اظهار اطاعت (b) و انقیان نہودہ پیشکشہاے لائقه ارسال میداشت در سال سوم جَلُوسَ وَالَّا يَعْقُوبَ فَامِي يُسْرِ خُودَ رَا بَا يِبِشَكُشَ فَرَاوَانَ بِدَرِكَاهُ وَالْا فَرَسْنَاهُ أَوْ جِنْدُ كَامُ دُر حَضُورَ قَيْامَ دَاشَتَ بِنَابِرُ وَحَشَّتَيْكُمْ البخاطر داشت بے رخصت از حضور گریخته بکشهیر رفت چون این معنی بعوض رسید فرمانے بنام یوسف خان صادر شد که خَيْرِيتُ ذَاتُ و امنيت ولايت تو در اين است كه خود آمده جبالا زست مشرف شود يا بيسو خود را بآستان والا بفرستد أو عذرهاے زمیدارانه پیش آورده عرضداشت نمود المذا قصلا كشهير بخاطر اكبر مصهم "كشت شاهرخ مرزا و راجه بهكونت داس و شاع قلي خان محرم و ديگر امرا برين خدمت متعين شد بصلاح رالا بران دولت خوالا روانه شدند و بسخطي و عسرت تهام قطع مراحل نهوده نزديك كشهير رسيدند يوشق خان در خود تاب مقاوست نديده اراده داشت كه بامرائے فافشاهی ملاقات فیاید اما از بیم کشدیریان فینی فَيْ أَنْسَتُ اخْوَالْامْرِ بِهِ فِهَا فَهُ قَايِمُنَ مَكَانَ مَجَافَلُهُ فِي آمَدُهُ فِلْمِواتَّ فالشاهي ملاقي شد كشهيريان باطلاع اين معنى حسين جك را بحكومت برياشته آمادة جنگ شدند درين آثنا يعقوب يسر يؤسف خان أزيدر جدا شده بكشهير رفت كشهيريان ههراهی هسیس چک گذاشته بر یعقوب جمع آمدند و اورا شاه استهميل خطاب فالأه و سر كوهها مستحكم ساخته بقصد مَعِارِبِهِ بِأَ لَشَكُرُ بِأَنْشَاهِي صَفَّوْتُ أَرَاسَتَنِدَ \*

II. Translate into idiomatic Persian, and endeavour to express the full meaning of the English text:—

Cyrus, when he saw the Lydians draw up in order of battle, alarmed at the cavalry, had recourse to the following stratagem, on the suggestion of a Mede. Having collected together all the camels that followed his army with provisions and baggage, and having caused their burdens to be taken off, he mounted men upon them equipped in cavalry accoutrements, and having furnished them, he ordered them to go in advance of the rest of the army against the Lydian horse; and he commanded his infantry to follow the camels, and he placed the whole of his cavalry behind the infantry. When all were drawn up in order, he charged them not to spare any of the Lydians, but to kill every one they met; but on no account to kill Crosus, even if he should offer resistance when taken. Such were the orders he gave. He drew up the camels in the front of the cavalry for this reason; a horse is afraid of a camel, and cannot endure to we its form or to scent its smell; for this reason, then he had recourse to this stratagem, that the cavalry might be useless to Creens, by which the Lydran expected to signalise himself. Accordingly, when they paned bettle, the horses no sooner smelt the camels and saw them, than they wheeled round, and the hopes of Creesus were destroyed.

## SANSKRIT.-First Paper.

BABU MATI LAL BHATTACHARYA, M.A., ISraminer,

I. श्रथ सी कीटरान्तरगतं गगकं दृष्ट्या माघेपनाह, भीः गगक न त्वया सन्दरं कृतं यन्ममावमयस्थाने प्रविष्टीऽमि तन्द्रीवं निष्क्रम्यताम्। गगक लाह, न तवेदं गृहं किन्तु ममेव। तत् किं मिण्या पहपाणि जलपि । उक्तञ्चः—

वापी कूपतड़ागानां देवालयकुणनागाम्।

उत्सर्गात्परतः स्वाभ्यमिष कर्तुं न शक्यते ॥ तन्ममैतद् शहं न तविति । किष्णुण शाह भी यदि रमृतिं प्रमाणीकरोषितदागच्छ मया सह । येन स्मृतिपाठकं एष्ट्रा म यस्य ददाति स शृह्णातु । (a) Analyze the Sandhi in तच्छी ब्रं, भी यदि and प्राग्न आह ; and state rules.

(b) Decline the base of rai in all singular case-endings.

- (c) Expound the Samasas in the underlined words in the above extract.
  - (d) What is the root of are and in what tense is it used?

(e) Explain समृतिं मनाएं। करोषि.

- II. (a) गुरुलाघवमर्थानामारम्भे कर्मगां फलम्। दोषं वा यो न जानाति स ब्राल इति होच्यते॥
  - (b) एकेन खलु वाणेन मर्भगयिमहते मिय। इति स्वाप्ति नहती वृही माता जनियता च मे ॥
  - (e) सर्वे तस्यादृता लोका यस्यैते त्रय आदृताः। अनादृतास्त यस्यैते सर्वास्तस्याफलाः क्रियाः
  - 1) Reproduce the above extracts in simple prose.

(2) Parse the underlined.

(3). Who are meant by एते त्रव: in (c)?

(4) Change the extract (b) into the active form.

## III. (a) अर्थौ द्वाविप निष्पत्नी युधिष्ठिर भविष्यतः।

(b) सब्येन च कटी देशे गृह्य वासिस पाग्डवः। तद्रहो द्विगुग चक्रे रवन्तं भैरवं रवम्॥

(1) Translate the above into English.

(2) Who is the speaker in the extract (a)? What are referred to by अधा हो?

(3) Is गृह्य grammatically correct? Give reasons for your answer.

IV. Explain:

- (a) के। तिभार: समर्थानां किं दूरं व्यवसायिनाम्। को विदेशः सविद्यानां कः परः पियवादिनाम्॥
- (b) द्रिद्रान् भर कीन्तेय ना प्रयच्छेत्रवरे धनम्। व्याधितस्यीषधं पथ्यं नीरुजस्य किमीषधैः॥

(1) Parse ई प्यरे and औषचै: in (b).

(2) Account for the long? (ई) in नीम्बस्य

(3) Give the प्रकृति and प्रस्यय in कीन्स्य

(4) Conjugate the root in মুমুহন্ত in লিহ্ (and Preterite).

- ए. (a) तां तु राजा दणरणी महाराष्ट्रविवर्धनः ।
   पुरीनादासयामास दिवि देवपतियंथा ।
   कपाटतीरणवतीं सुविभक्तान्तरापणाम् ।
  - ः अर्थयन्त्रायुषवतीसुपितं सर्वणिरिपमिः॥

(1) Render the above into prose.

(2) Expound the Samasas in the underlined words.

(3) Give the meaning of आवासवासास

V. बुभु बितः किं न करोति पापं, बीगा नरा निष्क्रमगा भवन्ति । श्रास्थाहि भाद्रे प्रियद्शंनस्य, न गङ्गद्तः पुनरेति कूपस् ॥

(1) Translate the above into English or Hundi.

(2) Who or what are referred to by the underlined words (

(3) In what case is ng? Are there any one of San hi in:—

" चीला नुरा निष्कत्त्वा भवन्ति "?

#### SANSKRIT,-Second Paper.

BABU MATI LAL BHATTACHARYA, M.A., Periodiner,

1. Translate into Sandait :-

(a) "In the beginning College And the leaven on I the earth."

(b) "Early to bed and early to it is, in do not man healthy, and wealthy, and wise."

(c), "At dawn of day, we went out of the town to take a wellon a piece of high ground and raw the analysis. It represents
bright, so that we could not book at it. Then we have the face of
the land."

(d) "Flowers are sweet and beautiful, but they have by their sweetness and beauty. Animals are strong and active when full grown, but in old age they become feeble and slow. Men are first

infants, they grow up and they die. Some are rejoicing to-day and weeping to-morrow. Everything in the world is changeable."
II. Translate into English:—

चला लक्नीश्वलाः प्राखाःश्वलो देहोऽपि यौदनम्।
चलाचलश्च संसारः कीर्त्तिध्यमंश्च निश्चलः ॥
विद्या विवादाय धनं सदाय
प्रक्तिः परेवां परिपीड़नाय ।
खलस्य साधीर्विपरीतमेतत्
चानाय दानाय च रच्चणाय ॥
प्रक्र चवाच
द्याव्याचा जिताः पूर्व सप्तसिंहास्त्रया गनाः ।
पश्यन्त देवताः सर्वो प्रद्य युद्धं त्यया नया ॥
सिंह चवाच
गच्च प्रकरः! भद्रं ते ब्रूहि सिंहो सया जितः ।
परिहता एव जानन्ति सिंहण्यूक्रयोर्जलस् ॥

श्रस्त जम्बूदीपे विन्ध्यो नाम गिरिः। तत्र चित्रवर्णी नाम मयूरः पितराजी निवस्ति। तस्यानुचरैरहं श्ररणयमध्ये चरनवलीकितः प्रष्ठश्च करत्वं कुतः समागतोऽसि। ततो गयी-कम् श्रहं कर्पूरद्वीपस्य राज्ञो हिरस्यगर्भस्यानुचरः। कौतुका द्वेशान्तरं द्रष्टुसागतोऽस्ति। तच्छुत्वा पिकिमिसक्तम् श्रनयोः कौदूशो देशः मद्रतरो राजा वा। ततो नयोक्तम् श्राः किमेव-मुच्यते महद्नतरम्। यतः कपूरद्वीपः खर्गैकदेशः, राजा चिद्वितीयः स्वर्गपतिः कषं वर्णयितं श्रक्यते। श्रत्रं महस्थले पितता पूर्यं कि कुत्रथ श्रागच्छतास्त्रदेशे गम्यताम् । ततत्तद्वन-माक्रार्यं पित्तगः सकीपा बस्वुः। तथाचोक्तम्

"उपदेशों हि सूर्वाणां मकापाय न शान्तये"।

#### HISTORY.

#### R. H. Gunnon Esq., Examiner.

(1) Who was Simon de Montfort! What was the coraposition

of the famous parliament which be summoned?

(2) Who were the Lollards, and why where they so call it! How are their doctrines connected with those of the Reformers of Henry VIII's times?

(3) Explain exactly the object of the Exclusion Bell. What were Lord Halifax's objections to it. How did the efforts to pass

the bill affect the position of English parties at the time?

(4) Trace the descent of Geogre 1, from Henry VII.

- (5) What was the cause of the Seven Year? war! What did England gain by the treaty by which the war was brought to an end?
- (6) What was the state of things that threw the Hindustan open to an Afghan invasion in the end of the 12th century!

(7) Sketch the history of Goa up to the time of Akbar.

(8) What was the "political system" devised by Lord Clies to settle the affair of Bengal I How was it "broken up by events" a few years later?

(9) Explain the manner in which Lord Cornwallin Settled the

land revenue of Bengal.

(10) What were the circumstances that but the Peckew to a copt British suzerainty in 1802? What were the terms of the treety which he then made with the company? What led him to break that treaty?

#### GEOGRAPHY.

#### B. D. Gospos, Erardiner,

N. B.—No more than nine questions are to be attempted by the Candidate.

I.—What do you understand by the Physical Geography of a country. Give an example of the way in which it affects the condition and pursuits of the people.

H .- What evidence have we of the internal heat of the earth?

Of what use are volcanoes! Describe a volcanic eruption.

111.—Distinguish between dev, hourfroat, for, cloud, and rain. How are heavy and long continued downpours of rain cented? What is a rain-gauge? Mention some parts of the world which have an annual rainfall exceeding one hundred inches.

IV.—Who or what are the following and where are they found:—Afridis, Bantus, bison, cinnamon, cinchona, emu, madder, opposum, taro, turquoise, vanilla, and zebra.

V.—Account for the following:—

- (a) The dryness of the south-west of Asia.
- (b) The sluggishness of the rivers of Russia.
- (c) The periodical inundations of the Nile.
- (d) The greater rainfall on the west than the east coast of India.
- (e) The greater coldness of North America when compared with countries in the same latitude in Europe.
- (f) The possibility of a telegram sent from Allahabad to London at 2 p. m. and occupying 2 hours in transit, reaching its destination at 10 A. M. of the same day.

VI.—Define the terms:—Bight, defile, dewpoint, dune, estuary, promontory and seaboard.

VII.—What and where are the following:—Amber, Bencoolen, Bangweolo, Chesapeake, Cook, Fiji, Guadiana, Kenia, Magellan, Massachusetts, Mercara, Monrovia, Nova Scotia, Orinoco, Pechele, Perokop, and Petropolovski.

VIII.—Name the following:—The tributaries of the Mississippi, the possessions of the French in America, the chief towns of Mexico, the exports and imports of Brazil, and the battle-fields of Spain.

IX.—What are the boundaries of Persia? Describe its climate, people and form of government. For what are Teheran, Ispahan, Shiraz, and Bushire respectively noteworthy?

X.—Draw a Map of Australia and mark on it its divisions and chief towns, as well as its gulfs, bays, and capes, and the course of its only large river.

XI.—Give a full description of any one of the following:

- (a) The Congo Free State;
- (b) Burma, its people and productions;
- (c) A journey from Halifax to Coal Harbour, by the Canadian Pacific Railway.

## ENTRANCE AND SCHOOL FINAL EXAMINATIONS, 1891.

### ENGLISH.—First Paper.

F. L. Thomson Esq. M.A. W. C. Horst Esq. B.A. J. W. Eacon Esq. M.A.

1. Fully explain the meaning of the following words and show by short sentences how you would use them:—schrysalis, periphrasis, libertine, tutelar, parasite, genulicaion, position, friars, stremous, aphorism.

2. Bring out the meaning of each of the following phra-

ses using the simplest language you can :---

(1) To fight by proxy; (2) every now and then; (2) to imbibe another's spirit; (4) to be made for each other; (5) to

proceed to extremities.

3. The student is expected to bring out clearly and concisely the meaning of each of the following proceeders of large ings. He should use simple language and explain any metaphors.

i. It is better to wear out than to rule out.

ii. None of us liveth to han all or dish to himself.

iii. Self-preservation is the first by of a store.

iv. Pride goeth before degree con and a famility spirit before a fall.

v. Keep me innovent, make other express, vi. Be not quick of tongue and slow of deal,

4. (a) Write in the indirect fam the goat of the fall weing that are in the decore from of correction.

(b) Explain the phrases in both types

(c) Answer briefly the questions in itselfer.

A greek quotation, and in a roath to round the stanchering professor from a kind of dog-loop in a sour rotur of the which. Shaking his head and rubbing his eyes, "I think, young gentleman," said he, "you favoured us just now with a quotation from Sophocles; I do not happen to recollect it there." "Oh, sir!," replied out tyro, "the quotation is word for word on I have repeated it," and in Sophocles too: but I suspect, sir, that it is, some time since you were at college."

Why did the professor shake his head-? What is meant by a 'dog sleep'? What is the force of the words, 'there' and 'our'? Give one-word equivalent in meaning to 'word for word.' What did the young man mean when he said, "I suspect, sir, that it is some time since you were at College"?

5. In the three following passages, bring out the meaning in simple and concise sentences; answer the questions in italics very briefly; explain, in foot-notes, the meaning of

words or phrases in bold type.

(a) Dr. Duncan knew that, even in the poorest family, odds and ends of income were apt to be frittered away in unnecessary expenditure. He saw some thrifty cottagers using the expedient of a cow, or a bit of garden-ground as a savings bank finding their return of interest in the shape of butter and milk, or garden-produce, and it occurred to him that there were other villagers—single men and young women—for whom some analogous mode of storing away their summer's savings might be provided, and a fair rate of interest returned upon their little investments.

What is the difference in meaning between "income" and "salary"? If a man spends his money unnecessarily, what is he said to be? What are men who take more than a fair rate of interest on money, called? Why is there reference made to summer's savings, and not to the savings of winter?

it was a period of gloom and savage unsociability; by degrees I sunk into a kind of corporeal torpor: or if aroused into activity by the spirit of youth, wasted the exertion in splenetic and vexations tricks, which alienated the few acquaintances whom compassion had yet left me. So I crept on in silent discontent, unfriended, and unpitied, indignant at the present, careless of the future; an object at once of apprehension and dislike.

Parse the word 'object.' What is the difference in meaning between 'apprehension' and 'dislike'? Who wrote this passage and to whom does it refer?

(c) Dark and voluminous the vapours rise,

And hung their horrors in the neighbouring skies, While through the Stygian veil that blots the day

In dazzling streaks the vivid lightnings play.

mon noun. Name the class to which the nouns noted below

belong—

Fox has been called the English Demostheres. This stone is a brilliant. The armies of Europe. The jury were kept without food.

Give the plural of father-in-law, lieutenant-governor,

echo, grotto.

Which of the two: London's streets, or the streets of London, would be the proper expression to use, and why? Parse yours, in 'this horse of yours.'

2. What meaning has the word few, in the following expressions:—

He read few books, he read a few books, and, he read the few books he had; and the word some, in, some enemy hath done this, there were some twenty people present.

Give the comparative and superlative forms of evil, late, much, few.

How would you explain the degrees of comparison in adjectives that seemingly do not admit of comparison, as, for example, their occurrence in such expressions as—I am more or less certain; he has the most perfect manners.

- 3. What is a reflexive pronoun, and what purposes does it serve? Illustrate your answer by means of sentences. Give the force of they in—They say there is a thing called light; of it in—What a pretty little girl it is; of what in—What a sad tale! and of who in—Who acts rightly, acts wisely. Parse that in—The strength of the lion is greater than that of the horse.
- 4. What is a factitive verb, and what a cognate object? What difference is there between the gerund and the participle? Give examples to explain your answer. What is the chief use of the present indefinite tense? Am I right in saying, 'I start to-night for Cawnpore'?

Give the meaning of the past perfect tense; and state into what tense the verb expressing the previous action is put, and into what tense the verb expressing the subsequent action. Illustrate your answer by means of an example.



(2) "Say, rather, child!" replied the advancing form, "say rather that nothing of beautiful or of glorious lives its own true life until my wing hath passed over it."

# ENGLISH.—THIRD PAPER.

Translation.

DR. G. THIBAUT, PH. D., Examiner.

Translate into English:-

A.

جسطرے دریا ابر سے سبندر کا پانی ایتا ہے اور پھڑ سبندر کو واپس دیتا ہے اوسیطرے سے شکر گذار کا دل اُن فائدوں کو جو اُسنے حاصل کیئے ہیں اپنے محسن کو پہونچانے سے خوش ہوتا ہے۔ وہ نہایت خندہ روئی سے احسانات کو قبول کرتا ہے اور اپنے مہربان محسن کو نہایت محبت اور قدر کی نگاہ سے دیکھتا ہے۔ اگر معاوضة احسان اُسکے امکان سے باہر ہو تو وہ اپنے دائییں نہایت شکر گذاری کے جوش سے اُسکو یاد رکھتا ہے۔ وہ تامدالعہر اپنے محسن کے احسانات فراموش فہیں کرتا۔

سخی کے هاتهه مثل آسهانی ابر کے هیں جسکی بارس سے زمین پر پهل اور پهول اور جری اور بوتی پیدا هوتی هے - مگر احسان فراموش کا دل مثل ریگستان کے بالو کے هے جو کل بارش کا پانی جذب کر لینا هے اور کچہ بھی ییدا نہیں کرتا \*

زمانہ قدیم میں خبر لیجانے کے لئے کبوتر اکثر استعمال کئے جاتے تھے۔جب رؤسیوں نے میدینا کا معاصرہ کیا تھا تب برونس اور ھارشیس کے درمیان میں کبوتر کے دریعہ سے خطو کتابت جاری تھے۔یونان میں جب اولیپیا کے ورزش کے نامی کھیل ھوا کرتے تھے تب بازی جیتنے والے اپنے دوستوں کو اکثر

کبوتر کے ذریعہ سے فورا خبر بھیجتے تھے۔اکسفورۃ ارر کیہبرج
کے اخیر کشتی رانی کے نتیجے کی پہلی خبر مع اُسکی تصویر
کے گریفک اخبار کے پاس کبوتر کے ذریعہ سے پہونچی تھی۔
رزانہ اخبار دریافت خبر کے اللّٰے کبوتر کو اکثر استعمال
میں لاتے ھیں۔کبوتر کی تیز پروازی اور اُنکی طاقت بازو
کا حال سننے سے تعجب ھوتا ھے اور جلد یقین نہیں ھوتا۔
مثلاً یہ بات صحیح ھے کہ امریکا سے اُڑنے والا کبوتر بحر
اِتَلانتَک کو پار کر سکتاھے اور سوامسومیل چوبیس گھنتوں
میں طی کرتا ھے ﷺ

C

هاتهي كا حافظه بهت قوي هوتا هي اور اس جانور كي عهر بهي بهت بري هوتي هي – و ايني بهي بهاوت كو ايني برياني ميں بهي پههانتا هي – ايک هاتهي پر بوجهه لاه كر لوگ كهيں لئے جاتے تھے كه جنگل ميں شير كى بو پاكے و تر كر بياگ گيا – تيز سال كے بعد وهي هاتهي بهت سے جنگلي هاتهيوں كے ساتهم پهنسايا گيا – جبكه اُسكي تمام خصلت اور عادت جنگلي هاتهيوں كي سي هو گئي تهي كسيكي همت عادت جنگلي هاتهيوں كي سي هو گئي تهي كسيكي همت نهيں هوتي تهي كه اُوسكے قريب جاوے ليكن اُسكا پرانا مهاوت أسكو پئار كر اُسكے پاس چلا گيا اور كان پكر كر بي آهنى كئ بينيا اور بلا عنر حكم ديا – اِس هاتهي نے اُسكو فوراً په بيان ليا اور بلا عنر بي الله اور بلا عنر بي الله اور بلا عنر نرها اور بهد امين پلوي هاتهي جيسا هو گيا په خذر نرها اور ايک دم ميں پلويے هاتهي جيسا هو گيا په

### HINDI.

Translate into English:-

 $\Lambda$ 

जैसे निद्यां अपने जल की ममुद्र में बहा कर ले जाती हैं जहां से वे उस जल की पाती हैं एसी प्रकार कुतक जन की बड़ी प्रसन्तता होती है जब वह अपने उपकार की वहीं पहुंचा देता है जहां से उसने पाया था।

बह बड़ी प्रस्वता से अपने उपकारी का गुगा मानता है श्रीर उससे प्रेमभाव प्रकट करता है श्रीर उसका मान श्रीर श्राद्र करता है ॥

यदि अपने उपकारी का प्रत्युपकार करना उसके सामध्ये के बाहर हो तो वह बड़े प्रेम से उसका स्वरण अपने हृद्य में रखता है। वह उसकी यावज्जीवन नहीं भूलता॥

उदारजन का हाथ आकाश के सेघ के समान है जिस के जल से फूल फल और जड़ी बूटी पुष्ट होती है। परन्तु कृतझ का हदय बलुई मरूभूमि के समान है जो आकाश के सब जल का निगल जाती है और अपने में खुखा लेती है और कुछ भी उत्पन्न नहीं करती।

В.

प्राचीन काल में लोग समाचार भेजने के लिये बहुधा कबूतर की काम में लाते रहे। जब रोमवालों ने मोडेना की घेर लिया या तो ब्रूटस और हार्शियस से कबूतरों के द्वारा लिखा पढ़ी होती थी॥

ग्रीस देश में जब अलिस्पिया के कसरत के खेल होते थे तो बाज़ी जीतने वाले अपने सित्रों के। बहुधा कबतरों के द्वारा तुरन्त समाचार भेजते थे। आवरूफोई और के ब्हुज के साथ जो पिछले साल नाव का दौड़ हुआ था उसके हार जीत का समाचार सचित्र कबूतर के द्वारा एहिले ग्राफ़िक समाचार पत्र की पहुंचा था॥ प्रात्यहिक समाचार पत्र प्रायः समाचार के लिये कब्तर की कान में लाते हैं॥

कबूतर की तेज़ी छीर गक्तिका वर्गन सुनने से आद्यर्थ होता है। फ़्रीर गीघ्र विद्यास नहीं होता। यथा यह बात ्रप्रामाशिक है कि अमेरिका का समाचार-ब्राहक कब्तर आटलारिटक सागर के पार हो सका है और सेालह सी मील २४ घंटे में उड़ता है ॥

इाथियों की समृति शक्ति तीक्या होती है। खीर उनकी श्राय भी अधिक होती है। वे अपने वचपन के महावत की बुढ़ापे में भी पहचान लेते हैं।

एक पलुआ हाथी पीठ पर बोका लादे लिये जाता या कि जङ्गल में बाघ की गन्ध पाकर हर कर भाग गया। हेढ़ साल के पीछे वही हाथी कई जंगली हाथियों के नाय फंसाया गया। खन उसके सब स्वभाव छोर व्यवहार जंगली हाथी के से हो गये थे। किसी का साहम न होता या कि उसके समीप जावे। पर उसका पुराना नहावत उसे पुकार कर उसकी पास चला गया छोर कान पकड़ बेंटने की फहा। हाथी ने तुरंत उसे पहचान लिया बिना उज्र के बेट गया। श्रीर फिर उसकी महावत की श्राजा में कुछ भी उत्रर न रहा। वह एक बारगी पल्छा दायी सा हो गया।।

## MATHEMATICS.—First Paper.

Arithmetic and Algebra,

BABU SARAT CHANDRA MUKERJEE, M.A.) BABU MOHINI KANTA GHATAK, M.A. Examiners.

Restore the complete work.

<sup>1. (</sup>a) A multiplication sum having been worked is partially rubbed out; the figures that remain are the entire multiplicand 999 and the last three digits 193 in the product.

(b) Simplify 
$$\frac{1}{1\frac{1}{100}} \times \frac{1 + 0025 \times 05}{10025 - 05} - \frac{45 \times 35}{8}$$

- 2. (a) What decimal of Rs. 100 must be added to  $\frac{141}{1496}$
- of Rs. 5-10-8 that the sum may be 10 annas?
  (b) Extract the square root of 25.6.
- 3. Two trains start at the same time from Mirzapur and Delhi and proceed towards each other at the rates of 16 and 21 miles per hour respectively. When they meet it is found that one train has travelled 60 miles more than the other. Find the distance between the two stations.
- 4. Two years and six months ago, I borrowed a sum which with simple interest at 6 per cent. per annum now amounts to Rs. 638-4-0. Find the sum.
  - 5. (a). Divide  $(x \times y)^3 8z^3$  by x + y 2z
- (b). Show that (x+2)(x+3)(x+4)(x+5) + 1 is a perfect square.
- 6. Resolve into elementary factors:  $39x^2 7x 22$ ,  $4x + 2x^2 + 9$ ,  $a^3 + b^3 + c^3 3abc$  and  $(a + b 3c)^2 a b + 3c$ .

7. Simplify: 
$$\left\{ \frac{ax}{x^2 - y^2} - \frac{b}{y - x} - \frac{a}{x + y} \right\} \div \left\{ \frac{ax}{a^2 - b^2} - \frac{y}{b - a} - \frac{x}{a + b} \right\}$$

8. Solve: (i) 
$$\frac{1}{x+a} + \frac{1}{x+b} = \frac{1}{x+a+b} + \frac{1}{x}$$

(ii) 
$$\frac{a+b}{x} - 5b = \frac{a-b}{y} - a \text{ and }$$
$$\frac{a}{x} - 2a = \frac{b}{y} - 3b.$$

- 9. A says to B: Two-fifths of my salary is  $\frac{4}{25}$  of yours, and the difference between our salaries is Rs. 600. What is A's salary?
  - 10. If a:b=c:d, prove that a:a+c=a+b:a+b+c-d,

### MATHEMATICS.—SECOND PAPER.

Euclid and Mensuration.

BABU HARI DAS GARGARI, M.A.
MAHAMAHOPADHAYAYA PANDIT SUKHAR
DWIVEDI,

Examiners.

Define a paralellogram, a gnomon, an arc, and a segment of a circle.

2. If two triangles have two sides of the one equal to two sides of the other each to each and have likewise their bases equal, then the angle which is contained by the two sides of the one shall be equal to the angle which is contained by the two sides of the other:

3. Construct a parallelogram which shall be equal to a given triangle and have one of its angles equal to a given

rectilineal angle.

4. If a straight line be divided into any two parts, the squares of the whole line and of one of the parts, are equal to twice the rectangle contained by the whole line and that part together with the square of the other part.

5. The diameter is the greatest straight line in a circle; and of all others, that which is nearer to the centre is always greater that one more remote; and the greater is nearer to

the centre than the less.

3. Describe a circle about a given triangle.

- 7. Inscribe a square within an equilateral triangle.
- 8. In a circle two chords AEB and CED intersect at E. Prove that the angles subtended by AC and BD at the centre are together double of the angle AEC.
- 9. A rectangular field of 5 acres, 200 yards long, is planted with trees in rows perpendicular to the length—one yard from row to row and one yard from tree to tree in the same row. If a width of a yard all round the field remain unplanted, find the number of trees. If the same number of trees were planted on the circumference of a circle at the same distance apart, what would be the diameter of the circle.
- 10. Prove the formula for determining the radius of the circle inscribed in a triangle whose sides are given.

The radius of a circle inscribed in an equilateral triangle is 10 feet. Find the area of the triangle.

11. Make a rough sketch and find the area of a field ABCD from the following measures taken in links; and find the length of the perpendicular from A on CD.

ength of the perpendicular from A on CD. BM the perpendicular from B on AC=400

DN the perpendicular from D on AC=300 AM=300, AN=400, AC=625.

### ARABIC.—FIRST PAPER.

MAULVI SYED AMJAD ALI, M.A., Examiner.

1. Translate into English:

نقل ان ضهرة الا سدي كان قتالا للرجال منازلا للابطال و كان مع ذلك نحيفا قصيرا تنبو الدين عنه-و كان قد قتل فاسا من العرب - ثم ان نعبان بن المنذر اللخبي جمع له المراصد و جعل فيه الجعايل - و اعيام ذلك - فكتب اليه با مان و جعل له مائة من الابل إن اتام - فقدم عليه - فلما رام نبت عينه عنه - و ازدرام و استصغر امره - و قال انت ضهرة الاسدي الذي بلغني عنه ما بلغ - قال نعم فقال النجمان تسمع بالمحيدي خير من إن تراه و ار سلها مثلا-فقال ضهرة ابيت اللعن - إنها الموع باصغريه قبله و لسانه فان قاتل قاتل بجنان - و إن نطق نطق بلسان - و ماتكال الرجال بقفزان - ولا توزن بهيزان - فاعجب ذاك النعمان - و قال الله ابوك «

2. Make a list of the various parts of speech contained in the above, giving singulars of plurals and plurals of singulars

3: Translate into English :-انهض الي المعالي \* و اجسر ولا تبالي
وخذ من الزمان \* خطـا فان

من عشق المعاليا \* لم يخدف اللياليا

تقرب السهنيسه « منك و الامنيسه و ربها نال الفتي « اضعات ماكان رجا اولا خطار عنتو « نفسسه لم يذكر الهجد بالهخاطرة « والنصر بالهجاربا من خشي العواقبا « وشسارو التجاربا لم يبلخ الهراتبا « و يحرز الهنا صبا

4. Explain the allusion or allusions in question 3.

5. Translate into English:-

عيني جودا بارك الله فيكها \* على ها لكين لاتري لهها مثلا على سيدا البطحاً وابن رئيسها \* وسيدة النسوان اول من صلي مهذبة قد طيب الله خيهها \* مباركة و الله ساق لها الفضلا مصا بهما الاجيلي الجو والهوا \* فبت اقاسي منهها الهم والثكلا لقد نصرا في الله دين محهد \* على من بغي في الدين قد رعيا الا

6. Write out the poetical extract, in question 5 with

vowel marks: and say who are meant by مالكين

7. Translate into English; and point out the antecedent of المناس mentioning the sense of the antecedent:—

اعرابي سرق غاشية من على سرج ثم دخل الهسجد يصلي فقرا الامام هل اتك حديث الغاشيه فقال يا فقيه لا تدخل في الفضول فلما قرأ وجوم يومئذ خاشعة قال خذو غاشيتكم ولا يخشع وجهي لابارك الله لكم فيها ثم رماها من يدم و خرج «

8. Repeat any six Arabic complets from memory; give

vowel marks to your writing; and translate them.

## ARABIC.—SECOND PAPER.

## MAUINI SYED AMJAD ALI, M. A., Examiner.

1. Translate the following into Arabic and give vowel marks to your translation:

· O God! Thee we worship and from Thee we ask help. Show us the right path. I saw the two horses of the king galloping fast

and breathing hard. Two men cried: The woman quarrelled with her husband. The wife and the husband quarrelled with each other. He had three companions. I gave him five hundred dirhems. Zaid is the most learned of his father's sons. Zaid is more learned than his brothers. This book extends over three hundred and fifty seven pages. Zaid, who is a good horseman, came to me. Omar went away on horseback. This box contains diverse articles. I saw a Musalman woman crying and wailing. Joseph is your brother. Call your brother and tell him to fetch a quantity of wheat for me from the market. Zaid went to Omar and took Bakar to him. John brought happy news to me. Is John standing? Did he stand? If Omar comes to me to-day I will give him two dirhems.

2. Translate the following into English:-

حبالهال يفسدالهال أوالهنة تضحك بالامنية صدور الإحرار قبور الاسرار - من اطاع غضبه اضاع الابه - من لم يقنع لم يشبح - الثواب يحصل بالعمل لا بالكسل - من قل صدقه قل صديقه - فخرك بفضلك خير منك باصلك - من كثرت أياديه قلت اعاديه \_ الخطاللفقير مال وللغنى جهال \_ عدو عاقل خير من صديق جاهل - صديقك من صدقك الامن صدقك - الدنيا دارالفرور لا دارالسرور - الدنيا ظل زائل والشاب ضيف راحل - بعد الكدر صفو و بعد الهطر صعو -الأيعرف النور من النار الا الابرار - اترك الدنيا لطلابها واطرَحُ الجيفة الكلابها - الجاهل يطلب الهال والعاقل يطلب الكهال الرزق مقسوم - الحريص محروم البخيل مذموم - الحسود مغموم - صبرك على الاكتساب خير من حاجتك الى الاصحاب-القليل مع التدبير خير من الكثير مع التبذير- أطلب الجار قبل الدار - والرفيق قبل الطريق - اذا طلبت العزفا طلبه بالطاعه - و اذا طلبت الفني فاطلبه بالقناعه - لافرح الا بالحسنات ولاحزن بالسيئات »

3. How do the Arabic Grammarians divide the several parts of speech? Mention these divisions and their subdivisions, with their examples.

- 4. Mention the اسباب منع حزف; giving instances in each case.
- 5. In what do Juit and Jii agree, and in what do they differ? Illustrate your answer with examples.
- 6. Mention جرزف الندم , distinguishing their usages from each other.

## PERSIAN,-First Paper.

Maulvi Syed Amjad Ali, M.A.
-Munshi Mahesh Prasad.

\*\*Examiners.\*\*

ای خوش آن مرد حقیقت که به پیغام و سلام رو بتسابد بسوی مائسدهٔ وصل رود اصل چون روے نهاید زبسس پردهٔ فرع فسرع را بساز گذارد بسسوی اصل رود

- 2. Explain in Persian the sets in question 1, as clearly as you can.
- الجه فرسنگه دیو از راجپوتان بندیله که رعایت یافتهٔ من است و در شجاعت و نیکذاتی از امثال و اقران خود استیاز تهام دارد بهنصب سه هزاری سرفرازی یافت باعث ترقی و رعایت او آن شد که در اواخرعهد پدر بزرگوارم شیخ ابوالفضل را که از شیخ زادها مندوستان بهزیت فضل و دانائی استیاز تهام داشت و ظاهر خود را بزیور اخلاص دانائی استیاز تهام داشت و ظاهر خود را بزیور اخلاص اراسته بقیمت گرانسنگ بهدرم فروخته بود از صوبهٔ دکن طلب

داشتند-و چون خاطر او بهن صاف نبود همیشه در ظاهر و باطن سنخذان مذكور ميساخت - و درين ايام كه بنابر افسان فتنه انگيزان خاطر مبارك والد بزرگوارم في الجمله آزمن آزردكي داشت يقين بود كه اگر دولت ملازمت دريابه باعث زيادتي آن غبار خواهد گشت و مانع دولت مواصلت گردیده کار بجائے خواهد رسانید که بضرورت از سعادت خدمت محروم باید گردید-چون ولایت نرسنگه دیو برسر راه او واقع بود و در آن آیام در جرگهٔ متمودان جا داشت باو پیخام فرستادم که اگر سر رای بران مفسد فتنه انگیز گرفته اورا نیست و نابود سازد رعایت هاے کلی از س خواهد یافت-توفیق رفیق او گشته در حینے که از حوالی ولایت اوسیگذشت راه بر او بست - و بر اندک ترددے مردم اورا پریشان و متفرق ساخته إورا بقتل آورد و سراورا بدر المآباد نزد من فرستاد-اگرچه این معنی باعث آزردگی خاطر اشرت حضرت عرش آشیانی گردید غایة این کار کرد که س بے سلاحظه و دغدغهٔ خاطر عزیهت آستان بوس درگاه پدر خود کردم - و رفته رفته ان كدورت ها بصفا سبدل گرديد \*

4. Explain the following:—
- ابادانی - عرش آشیانی - همایون - بختی - احدی - ابادانی اندانی - همایون - بختی

5. Translate into English the following:

چه شب ها نشستم درین دیر گم که حیرت گرفت آستینم که قم

محيط است علم سلك بر بسيط

قیاس تو بر وے نگردد معیط نه ادراک در کنه ناتش رسد

نه فكرت بغور صفاتش رسد

توان در بلاغت بسحبان رسید نه در کنه بیچون سبحان رسید کہ خاصان درین رہ فرس راندہ اند بلا احصی از تگ فرو ماندہ اند نه هر جاے مرکب توان تاختن کہ جاھا سیر باید انداختی

6. Explain, in Persian, the allusions in question 5.

7. Translate into English the following:-

زایشا را ز تنهائي چو جان کاست

آبراء يوسف از نے خانهٔ ساخت

بدو كردند نے بستي حراله

چو ترسیقار پر فریاد و ناله

چو کردے از جدائی ناله آغاز

جدد برخاستي از هرنے آواز

چو از هجر آتش اندروي گرفتے

ز آتُشُ شَعَله در هرنے گرفتے

در آن نے بست بود افتادہ خستہ

چرصیدے تیرها گردش نشسته

واي از ذوق عشقش چون اثر بود

برو هر تير گوئي نيشكر بون

8. Analyse the first couplet in Persian, in que dien 7.

9. Write out at least half a dozen of Persian couplets not contained in this question paper, from one or several good Persian poets, refer them to their authors, and translate them.

## PERSIAN,—SECOND PAPER.

MUNSHI RAM KISHEN.
MAULVI SYED KALAN, M. A.

Examiners.

1. Translate into English:-

بالجبله ههایون بادشاه به هزار محنت و مشقت (۵) در آگره رسیدو در انجا توقف صلاح ندانسته راهی شدو بعد.

قطع مسافت در لاهور رسیده با برادران مجلس مشوره آراست و هر گونه کنگاش درمیان آمد-هریک از برادران موافق رائ خود برخلات رضائ هبایون سخنان دور از کار مذکور کردند-ههایون فرمود که فردوس مکانی یعنی بابر بادشاه هندوستان را بچه مشقت تسخیر کرده اگراز به اتفاقی شها امروز از حیطهٔ تصرف بر آیه بادشاهان روی زمین شها را چه خواهند گفت و من هرگاه تنها بر سر غنیم بررم اگر بعنایت الهی فتم و نصرت روی دهد شها بچه رو مارا خواهید دید و اگر عیانا بالله معامله بطور دیگر شود شهارا در هند و اگر عیانا بالله معامله بطور دیگر شود شهارا در شندوستان بسر بردن نهایت مشکل است-چون کامران مرزا را شیرخان از راه خدیمت امیدوار کرده بود که ولایت لاهور برو مسلم داشته باشد مرزا مذکور از معاونت ههایون بادشاه برو مسلم داشته باشد مرزا مذکور از معاونت ههایون بادشاه رزانه کابل گردید «

آورده اند که در ولایت حلب بیشهٔ بود مشتبل بر (۱) درخت بسیار و در آنجا شیرے بود که همواره بخون ریختی جانوران مشغول بودی - سیاه گوش که ملازم او بود چون صورت حال بدین منوال دید از نتیجهٔ ستبگاری او بترسید و میخواست که ترک ملازمت گیرد - درین فکررو بصحرا نبان و برکنار بیشهٔ موشے دید که بجهد تمام بیخ درختی برد - درخت بزبان حال با او میگوید ای ستبگار چرا به تبر آزار بنیاد حیات مرا زیروزبر میسازی و مردم را از راحت ساید و منفعت میوهٔ من محروم میگردانی - موش بزاری او التفات نا نموده بههای جفاکاری اشتفال داشت که ناگاه ماری از کمین بیرون آمد و قصد موش کرده بیکدم او را فرو برد ایرانده حز آزار ند بیند و دانست که آزارنده حز آزار ند بیند - در همین حال که مار از خوردن موش آندا در بیند و دانست که

فارغ شده در سایهٔ درخت حلقه زد خار پشتی در آمدو در مار بدهن گرفته سر در کشید-مار از غایت اضطراب خود را بروی می زو تا همه اعضایش بنوک خار سوراخ دار شده جان بهالک دوزخ سپرد-سیاه گوش از صفحهٔ اعتبار رقبی دیگر مشاهده نمود-ناگاه روباهی گرسنه بدانجا رسید وخار پشت را دیده در حست و حلقش بگرفت-وسرش برکنده باتی اجزا را بخورد- هنوز روباه را فراغت کلی نشده بود که سگ جهنده چون گرگ درنده از گرشه در آمدروباه را ازهم بدرید سیاه گوش را این تجربه ها مرجب مزید یقین گشت و بهلازمت شیر آمده اجازت رفتن ازان بیشه طلبید شبیت بیت به بیت بید بدی دادی باشد

Translate into Persian:-

(a) Alexander the Great, King of Macedonia, having conquered Durius, King of Persia, took an infinite number of prisoners; and among others, the wife and mother of Durius. Now according to the laws of war, he might with justice have made slaves of them; but he had too much greatness of soul to make a bad use of his victory; he therefore treated them are queens, and showed them the same attention; and respect, as if he had been their subject; which Darius heaving of said, that Alexander deserved to be victorious and was alone worthy to reign in his stead. Observe by thus, how virtue and greatness of soul, compel even enemies to bestow praises.

#### (b) My dear boy,

July the 24th 1793.

I was pleased with your asking me, the last time I saw you, why I had left off writing; for I looked upon it as a sign that you loked and minded my letters; if that be the case, you shall hear from me often enough; and my letters may be of use, if you will give attention to them; otherwise it is only giving myself trouble to no purpose; for it signifies nothing to read a thing once, if one does not mind and remember it. It is a sure sign of a little mind, to be doing one thing; at the same time to be either thinking of another, or not thinking at all. One should always think of what one is about. When one is learning, one should not thing of play; and when one is at play, one should not think of one's learning. Adien.

Chesterfield.

## SANSKRIT.—FIRST PAPER.

BABU DEBENDRA NATH CHARRAVARTI, M.A., Examiner.

1. मार्जारोऽवदत्। अहमत्र गङ्गातीरे नित्यसायी निरामिषाशी ब्रह्मचर्येण चान्द्रायणव्रतमाचरंस्तिष्ठामि । युष्माञ्च
धर्मज्ञान् मम विश्वासभूमयः पित्तसाः सर्वे सर्वदां ममाग्रे
प्रस्तुवन्ति । ततो भवद्भ्यो विद्यावयोवृहुभ्यो धर्मं श्रोतुमिहागतः। भवन्तश्चेदृशाधर्मज्ञायन् मामतिथिं हन्तुमुद्यताः।
गृहस्थस्यैव च धर्मः—

श्ररावप्युचितं कार्य्यमातिष्यं गृहमागते।

क्रेतु पार्श्वगतच्छायां नोपसंहरते द्रुमः॥

यद्यप्यनं नास्ति तदा प्रीतिवचनेनापि तावदतिथिः पूज्यः। तथाचीक्तं।

तृगानि भूमिहद्कं वाक्चतुर्थीं च सूनृता।
एतान्यपि अतां गेहे नोच्छिद्यन्ते कदाचन॥

- (a) Translate the above extract into English.
- (b) Parse the underlined words.
- (c) Decline বয়ন, উল্, পানি, বাল্ and নন্ in the nominative (প্রথা), genitive (পর্যা), dative (লন্থা), locative (নম্পা) and accusative (দ্বিধা) cases respectively.
- (d)-Conjugate बर्, ज्ञा, स्तु, इन् and ह in the second preterite (जिर्), first preterite (जङ्), present tense (जर्) imperative (जोर), and second future (जर्), respectively.
- (e) Change the voices of the shlokas quoted above.
- (f) State the rules justifying the ए in चान्द्रायएं, and ब्रह्म-
- (g) Expound all the तत्पुरूप compounds in the above extract.

- 2. Explain fully in Sanskrit :--
- (त) न स्वरुपस्य कृति भृति नागयेन् मतिमानर:। एतदेव हि पाणि इत्यं यतस्वरुपाद् भृतिरनगम्॥
- (b) माता शतुः पिता वैरी येन वालो न पाटितः। न गोमते समानध्ये हंसमध्ये वका यया॥
- (e) सङ्गमयति विधिव नीचगापि नरं सरित्। समुद्रनिव दुर्घेषं नृपं भाग्यगतः परम्॥
  - (d) यञ्चावृगोत्यवितयेन कर्नगा ऋतं ब्रुवनमृतं संप्रयच्छन् । तं वै मन्येत पितरं नातरं घ तस्मै न दृद्धेत् कृतमस्य जानन् ॥
- ं (e) इह वा तारयेद् दुर्गादुत वा प्रेत्य भारत। सर्वणा तारयेत् पुत्रः पुत्र इत्यूच्यते वुधैः॥
  - (1) Decline মুই in the ablative case (पञ्चमी)
  - (2) Parse the underlined words.
    (3) Who is referred to by भारत in extract (c)?
  - (4) Change the voices of the extracts (d) and (e).
- 3. Turn into simple prose :-
  - (त) एतावानेव पुरुषः कृतं यस्मित नश्यति । यावच्च कृष्यं(दन्योऽस्य कुष्यांट् बहुगुगं ततः॥
  - (b) ये च वार्गोर्न विद्वचन्ति विविक्तनपरापरम्।
  - (c) शब्दवेष्यं च विततं लघुतस्ता विगारदाः।

     शेपमेव गते यत् स्थात् तत् प्रमीदतु मे मुनिः
  - (d) यद्याचिति दाल्याणि शुभं दा यदि दाशुभम्।

    तदेव लगते भद्रे कर्ता कर्मजगारमनः॥

- (1) Expound the Samasas in the underlined words
- (2) Write out the present tense of the root जन-
- (3) Translate extract (a) into English on Hindi.
- (4) Write down the meanings of विविक्त अपरापर and लघुहरता:
- 4. Write down the meanings of the following words:—
  एकपदी, पविद्धं, व्यलीकं, अनुक्रोश:, व्यष्टिः, परिग्राह्यः, साम, बारः, विप्रलब्धः, and निक्षिंशः
- 5. श्रपास्य हि रसान् भौमांस्तप्त्वाच जगदंश्वभिः i परेताचरितां मीयां रविराचरतेदिशम् ॥
  - (a) Explain the formation of the words भौमः and जमत्.
  - (b) Is স্থাৰ্থন grammatically correct?
  - (c) Write out the second preterite (লিছ), 1st person, singular, dual, and plural of the root of परत:
  - (d) Change the voice of the above extract.
  - (e) Account for the accusative case (द्वितिया) in दिशं.

## SANSKRIT.—SECOND PAPER.

## BABU DEBENDRA NATH CHAKRAVARTI, M.A., Examiner.

- 1. Translate into English:
- (a) Clever people often do that by care and thought, which strength could not bring about.
- (b) Silver is white and shining. Rupees are made of silver. Silver comes from a great way off.
- (c) The good boy loves his parents. He always minds what they say to him, and tries to please them. He likes to read, and to learn something every day. He is kind to his brothers and sisters. He never tells a lie.
- (d) It is a very pleasant morning; the sun shines, and the birds sing on the trees.

#### 2. Translate into English:-

- (a) उपकारिषु यः साधु: साधुत्वे तस्य के। गुगा। प्रापकारिषु यः साधु: म साधुः सङ्गिसच्यते॥
- (b) फ्रिंरस्य गुगानाञ्च दृरसत्यन्तमन्तरम् । प्ररीरं त्तग विध्वंसि कल्पान्तरस्यायिनो गुगा:॥
- (c) प्रहम्भवं हेमसृगस्य जन्म तथापि रासा लुलुभे सृराय। प्राय: समासन्नविपत्ति काले धियो हि पुंसां मलिनीभवन्ति॥
- (d) नमन्ति फलिनो वृत्ता नमन्ति फलिनो जना:। शुष्कावृत्ताद्य सूर्खाद्य न नमन्ति कदाघन॥
- (e) श्रत्र भारते कनकपुरं नाम नगरमाधीत तत्र । मुगा-कसनामा राजा बभूव । स विद्यावान्, गुगाझः, भक्तिमांत्र । याचके दृष्टे तस्प महती प्रीतिः । तस्य सज्जनो नाम मित्रम-भवत् । नाम्त्रा सज्जनः परन्तु कर्मगासी दुर्जनः । एकदा नि-जंने जाते राजा तुरङ्गमधिरुद्ध घचाल । तस्य मित्रं सज्जनः तमनुजगाम । मार्गेत्रजतीद्वंयोरिति संलापो बभूव । नृपंग क-यितं भोः सज्जन! त्रृहि कामि वार्त्ताम् । तेनोक्तं, राजन्? पुगयपापयोः किं श्रेष्ठं? राजा प्राह, धर्माज्जयः श्रधर्मेग व्ययः इति बालका श्रिप जानन्ति । सज्जनेनोक्तं, श्रहं मूर्गः, परं कथ्य, किं पुग्यं किं पापं वा? राजा श्राह—

वचः सत्यं गुरौ भक्तिः जन्त्यादानं द्यादिते । धर्मोऽयिमप्टसंयागकरोऽनिप्टनितः— एतस्मात् विपरीतोऽधर्मः ।

#### HISTORY.—FIRST PAPER.

M. CROSSE, ESQ., M. A. REV. L. PHILLIPS, M.A.

Examiners.

#### English and Indian History.

- 1. Give a brief account of the wars with Scotland in the reign of Edward I, and with France in the reign of Edward III.
  - 2. (a) What were the claims put forward by the impostors who claimed the throne during the reign of Henry VII.? What was their fate?

(b) What attempts were made to restore the Stuart dy-

nasty? Give a short account of each.

3. Describe how Scotland Ireland were united with England. Give the dates of each union.

4. Write brief notes on the following:-

Benevolences, Treaty of Dover, Mehemet Ali, The Education Act, The Mahdi.

5. What led to the invasion of Egypt in 1882? Give

some account of it.

6. Narrate the chief events in the reign of Akbar, noting his policy, religious views, and character.

7. When was the East India Company started, and what

were the causes that led to its down fall?

8. Give a short account of the Sikhs up to the date of their conquest by Lord Gough.

9. State what you know of the Imperial Assemblage at

Delhi.

10. Write short notes on :—

"The heavenly bride," Tom Coryat, Dr. Fryer, Jeswant Rao, The Convention of Wurgaum.

#### -GEOGRAPHY.

T. R. Read, Esq., M.A. B. D. Gordon, Esq., F.S. Sc.

Examiners.

1. (a) Define a peninsula, a lake, an isthmus, a bay, a strait, a cape, an island, a river.

(b) When it is noon at Calcutta (88° 28° E) what time is it at Chicago (87° 35° W)?

2. Give the boundaries, chief rivers, principal produc-

tions, and six important towns of France.

3. What and where are—Anglesea, Bolan, Buluwayo, Demayond, Kra, Mælstrom, Negrais, Pamir, Shat-el-Arab, Titicaca, Tsugaru, Yucatan?

4. Draw a map of the Mediterranean Sea, showing its arms or branches, its chief island, and the countries along its

shores.

5. Distinguish between—statactite and stategarite, isothermal and sobaric lines, land and sea breezes, continental and insular climate.

6. Into what classes are rocks divided? Briefly describe

the origin of each class.

7. Explain the difference between rain and dem; and

give some account of the South-West Monsoon.

8. Enumerate the modes of formation of lakes, and say why the water of some lakes is salt and that of others fresh?

#### POLITICAL ECONOMY.

#### J. G. Jennings, Esq., Examiner.

- 1. Explain the definition of Money as a measure of value and a modium of exchange.
- 2. Distinguish between Productive and Unproductive Coromaption, giving examples. Show that Capital in order to fulfil its functions much be consumed.
- 3. Show that a demand for commodities is not a demand for labeling and give examples.
- 4. Distinguish between Value and Price, and explain the statement that the price of commodities must be as to equalise the densary with the supply.
  - 5. Discuss whether Rent increases the price of Apricultural Produce.
- 6. Distinguish between the Cost of Lahour, and the Wayer of Labour, and show that the former is a function of three variable.
- 7. Show that foreign trade will be advant report to both countries engaged, only when the relative cost of the commodities exclusively in the two countries.
- 8. Distinguish between Credit and Capital, and between the services which they severally render to the production of wealth.

#### ELEMENTARY PHYSICS.

#### J. Murray, Esq., M.A., Examiner.

1. What do you mean by a chemical element? Mention the elements in the following:—Indigo, Lime, Sulphur Alumina, Phosphorus, Blende, Brass Zine, Steel, Soda, Mercury, Alum, Antimony. Give as far as you can, the components of those which you consider compounds.

2. A candle is lighted and gradually burns away and disappears. A piece of sugar is put into hot water and after a short time disappears. A saucer with a little water in it is exposed to the hot wind; after sometime the saucer is found dry, and the water has disappeared. Trace the cause of

the disappearance in each ease.

3. Describe experiments to illustrate the difference in the chemical

actions that accompany the life and growth of plants and animals.

4. Describe experiment shewing that hydrogen and oxygen can be got from water, and another shewing that water is made up of nothing but hydrogen and oxygen.

5. If you were asked to prepare chlorine, what materials would you require? Describe carefully how you would prepare it when you got them.

6. What is the difference between the properties of cast-iron and

wrought-iron? How can the latter be made from the former?

7. A piece of wood and a piece of iron of the same rize and shape are both placed on the surface of the water in a tank and then let go. The

former sinks down a little way, but the latter sinks completely and disappears. What explanation can you give of the difference in their behaviour?

8. A pair of bullocks are dragging a cart along a road and are said to be

doing work. Describe earefully what is meant by this. It is found that one pair of bullocks can in one day lift a bucket containing 20 gallons of water 50 times from the bottom of a well 40 feet deep, in the same time another pair lift a bucket one-third the size of the other 60 times from a well 30 feet deep. 'Compare the amount of work done by each pair in one day.'

9. Describe an experiment to show that the temperature of water when

boiling depends only on the pressure on the surface of the water.

10. What is meant by the statement that the latent heat of steam is 537 and the latent heat of ice 80? Describe some simple experiment to prove the truth of the former statement.

#### BOOK-KEEPING.

#### B. D. GORDON, Esq., F. S. Sc., Examiner.

1. (a) What is meant by balancing an account?

(b) Give the four rules for balancing goods account.

(c) When is an account said to be closed?

 $\sim$  (d) Make out cash account and balance:—

February 1, Cash in hand, £50.—Received from J. Stuart £39. 4s. 7d.—February 4, Paid Mr. Salmon, £42. 10s. 2d.—February 7, Received from Mr. Short, £200—February 9, Paid Mr. Swift, £72. 12s. 3d.—February 11, Paid Mr. Ship.

pey, £63. 6s. 7d.—February 12, Paid Mr. Steady, £9. 9s. 0d.—February 17, Received from Mr. South, £100—February 19, Paid Mr. Shallow, £12 2s. 4d.—February 22, Paid Mr. Saintey, £5.—February 25, Received of Mr. Scammell, 2s. 6d.—February 28, Paid Mr. Saling, £11. 11s. 0d.

2. Journalise the following:-

- 1. Sold goods for eash. 2. Bought goods of J. Smith for eash. 3. Paid J. Smith £100. 4. Drew cheque for trade expenses. 5. Drew cheque for private expenses. 6. Paid into bank. 7. Bought new house for eash. 8. Rent due to Landlord. 9. Paid rent due this day. 10. J. Robertson drew on me. 11. Recieved J. Robertson's acceptance. 12. Cash short this day 3s. 6d.
  - 3. 1. What is a bill. 2. In what two forms are bills made out? 3. Is a Promissory Note a Bill Payable or a Bill Receivable? 4. What is respectively meant by Endorsing a Bill, Accepting a Bill, Discounting a Bill, Paying a bill, Dishonoring a Bill and Renewing a Bill? 5. What becomes of a Bill at last?
  - 4. Open the books, Enter the Transactions, and Prove:

    May 1. Cash in hand ... ... £400

    " 1. L. S. Cooper owed me ... ... 10

    " 1. I owed C. Carter ... ... 70

    Transactions.

May Bought goods of C. Carter 1. 200 7. Sold " to L. S. Cooper 10 " C. Collins 8. 30 " Paid C. Carter 12. 140 " 12. L. S. Cooper pays me 15 30. Paid for Trado expenses 2 Private expenses 10 Value of stock 175 , >> (1) Journalies (2) Part (2) D

υ, (	י,	bournanse, (2) Post, (3)	Prove:				
T	•	0.1.1.1			£	8.	$\partial$ .
		Cash in hand	• • •	* * *	7	8	2
"		Goods in hand	• • •		194	10	()
		I owe Mr. Hardy	•••	* * *	12	()	0
>>	١.	Mr. Harris owes me	•••		20	0	()

Dec. 1. Houghton and Son owe me	35. 0 0.
" 1. Mr. Harris settles his account,	less5%
Discount	
3. Sold goods to W. Heaver	8 8 0.
" 10. Bought goods of M. Hardy	14 11 2
" 10. Paid Mr. Hardy	25 0 0
Discount received	1 11 2
" 15. Sold goods to Howell and Co.	13 0 0
31. Do. do. For Cash	93 12 2
This is supposed to be the sum total of M	Conthly
Cash Sales	•••
" 31. Trade expenses	2 0 0
31. Personal expenses	5 0 0
" 31. Value of Stock	124 1 6

# GEOMETRICAL DRAWING. M. CROSSE, Esq., M. A., Examiner. Time 2 hours.

- 1. To construct a Right-angled Triangle having given the hypotenuse BC and the perpendicular distance DE from the right-angle A to BC.
- 2. Construct a quadrilateral ABCD from the following data. AD 80 feet; AC 120 feet; angle DAC 60°; BC=½ AC; AB=3BC, Scale 80 feet to an inch.
- 3. Draw a tangent to an arc from a given point P outside it without using the centre.
- 4. Divide a line AB proportionally to a given divided line CD.
- 5. The given line AB is 4 feet 8 inches long by scale. Produce it so as to make it 14 feet.
- 6. Construct a diagonal scale to shew inches, tenths, and hundredths.
- 7. In a given Isosceles Triangle to inscribe two equal circles each touching two sides of the triangle and the other circle.
- 8. Inscribe any regular Polygon as many semi-circles as the figure has sides, each semi-circle touching two sides of the Polygon.

  N. B.—All working lines must be shewn.

#### ENTRANCE AND SCHOOL FINAL-EXAMINATIONS, 1895.

#### ENGLISH.-First Paper.

C. H. Linton, Esq., M.A. ... REV. G. B. RULACH. ... T. R. READ, Esq., M. A. ... Examiners.

1. Give, in your own words, the meaning of the wordand phrases printed in bold type:—

(a) "Grace Darling retired to rest on the night of the storm, a qirl.

Whom there was none to praise,

And very few to love;"

but ere many days were over, she was the most famous woman in the land. The story of her daring deed was wasted all over Europe; innumerable testimonials parrel in all her—on her—one public subscription of £ 700; portraits of her appeared in all the shop windows; ballads in her honour were sung about the streets; and scores of suitors sought her hand in marriage. But amidst all the famult of applause, Graco never forgot the modesty which is the true handmaid of heroism; and nothing could induce her to quit the lonely light-house.

Who is the Grace Darling mentioned in the above passage? What daring deed did she do? What is heroism; and how may modesty be said to be its true handwrist? What do you, understand by —"a girl

Whom there was none to praise,

And very few to love;"

Parse, girl. What is a balked? Distinguish between testimonials and gifts.

(b) "My dear Herenles," said she, "I find you are very much divided in your own thoughts upon the way of life you ought to choose; be my friend and follow me: I will lead you into the possession of pleasure and out of the reach of pain, and remove you from all the noise and disquietule of basiness. The affairs of either war or peace shall have no power to disturb you. Your whole employment shall be to make your life easy and to entertain every sense with its proper gratifications.

Who addresses these words to Hercules? What were the inducements held out by her rival? Whose offer did he accept? The tale from which this extract is taken is called an allegory. What is an allegory?

2. Write out the following pieces of poetry in prosesbring out their meaning fully. A mere substitution of synonyms will not be accepted. The general purport of each

passage must be expressed.

(a) Unfathomable Sea? whose waves are years, Ocean of time, whose waters of deep woe

Are brackish with the salt of human tears! Thou shoreless flood, which in thy ebb and flow

Claspest the limits of mortality!

Why is the sea spoken of as a shoreless flood; and how does it at the same time clasp the limits of mortality. Parse, Ocean.

(b) In that mansion used to be
Free-hearted Hospitality;
His great fires up the chimney roared,
The stranger feasted at his board;
But like the Skeleton at the feast,
The warning time-piece never ceased,

#### "Forever—Never!" Never—Forever!"

The word Hospitality in the above verse is said to be personified:—What is meant by the word personified? What is the 'Skeleton at the feast;' and how may a time piece be compared to a 'Skeleton at the feast?' What thought is suggested by the concluding words, "Forever—Never! Never—Forever!"! In what respect are these words peculiarly appropriate at the close of each verse? Parse hospitality.

- 3. Give in your own words the meaning of the following Extracts:—
- (a) Our queen's crown may moulder; but she who wore it will act upon the ages which are yet to come.

(b) Thou dost preserve the stars from wrong,

And the most ancient heavens, through Thee, are

fresh and strong.

- (c) It is by woman that nature writes on the hearts of men.
  - (d) A mock humility is one of the worst forms of pride.
  - (e) Kind words never blister the tongue of lips.

(f) The Empire of the tributary seas
That lave thine island o'er.

- (g) Between fame and true honour a distinction is to be made. The former is blind and noisy applause; the latter, more silent and internal homage.
- 4. Give the meaning of the following words and phrases; select any three words and any three phrases from among them and show, by short sentences, how you would use them:—
- (1) It is all one; (2) to keep up his spirits; (3) easier said than done; (4) to set at nonght; (5) in consideration of the benefit; (6) to his heart's content; (7) household gold; (8) strain every nerve; (9) sanitarium; (10) predatory; (11) sophistry; (12) aphorism; (13) vociferated; (14) asceticism; (15) stumblingblock; (16) voluntarity.
- 5. Who are the authors of the following postical extracts? Give, fully and clearly, the sense of the extracts:—
  - (a) Never morning wore
    To evening, but some heart did break,
  - (b) There is a tide in the affairs of men Which, taken at the flood, leads on to fortune.
  - (c) Stern Daughter of the voice of God!
    O Duty! if that name thou love,
    Who art a light to guide, a rod
    To check the erring and reprove.
  - (d) Good name in man or woman Is the immediate Jewel of their souls.
  - 6. Passages from books not prescribed.

Re-write the following passages in your own words; bring out their meaning fully:-

(a) Of all the solitary insects. I have ever remarked, the spider is the most sugacious; and its actions, to me who leave attentively considered them, seen almost to exceed belief. This insect is formed by nature for a state of war, not only

upon other insects, but upon each other. For this state nature seems perfectly well to have formed it. Its head and breast are covered with a strong natural coat of mail, which is impenetrable to the attempts of every other insect; and its belly is enveloped in a soft pliant skin, which eludes the sting even of a wasp. Its legs are terminated by strong claws; and their vast length, like spears, serves to keep every assailant at a distance.

(b) Deeper, deeper let us toil
In the mines of knowledge;
Nature's wealth and learning's spoil
Win from School and College;
Delve we there for richer gems
Than the stars of diadems.

# ENGLISH.—SECOND PAPER. GENERAL GRAMMAR.

H. R. WILLIAMS, ESQ.
R. McGavin Spence, Esq., M. A.

\*\*Examiners.\*\*
H. F. Manley, Esq., M. A.

\*\*Examiners.\*\*

- 1. (a) Form abstract nouns from :—hate; priest; young; high; give; cruel.
- (b) Form adjectives by adding suffixes to:—awe; man; burden; south; slave; storm.
- (e) Form verbs from :—fright; throne; spark; terror; sympathy; food.
  - (d) Compare :—ill; patient; late; rough; gay; bitter.
  - 2. Parse the words in darker type:—
- (a) Weather permitting, we shall start on our journey to-
  - (b) I asked him where he lived.
    - (c) He has entered into the business\_heart and soul.
  - (d) I could do nothing but weep.
- (e) What grieved me most of all, my friend turned against me.

(f) We were successful at our examination, though we scarcely expected it.

(g) Better be with the dead than lead a life like this.

- 3. Form four sentences using—if; should; had; and were; to express condition.
  - 4. Parse the italicised words in the following:

    None to have seen his free-born air.

    Had fancied him a captive-there.
- 5. Write the following sentences, using for the italicised word in each, without altering the sense, the one give after it in brackets:—
- (a) He confessed his fault and was fargiven (over-look.)
  - (b) He was a great help to me (service).
  - (c) I do not trust him (confidence).
  - (d) He laughed at me (ridiculed).
  - (e) My watch was stolen (robbed).
- (f) Condence your statement as much as possible (concise).
  - 6. Analyse according to the subjoined form:

Sentence.	Kind of sentence.	Subject with adjunct.	Predicate,	Comple tion	Externa,
-	· concrete qu		And the second second	Today as you pure to a go y	A series and a ser

Rome with her palaces and towers,

By us unwished, unreft

Her homely huts and woodland howers

To Britain might have left;

·:.

Worthless to you their wealth must be,

But dear to us; for they were free.

7. Fill up the blanks in the following sentences with appropriate proposition:—

(a) He has set my authority-nought.

(b) It will devolve—you to see if he is qualified—the appointment.

(c) Your conduct is subversive—all discipline.
(d) He exposed himself—the risk—being made answerable—the loss.

(e) The people were abolishing the law, but the House of Lords had objection—this course.

- 8. Write sentences illustrating the use of the following idioms, and explain the meaning of the phrase in each case. The sentence must be such as to show that the idiom is understood :-
  - (a) Called to account.
  - (b) Gave no quarter.
  - (c) Gives way to.
  - (d) At your peril.

    - (e) At fault. (f) Made amends.
    - (g) Out of keeping.
  - (h) A good turn.
- 9. Re-write the following in the indirect form: So he enquired of the sailors, "Pray, tell me why there is so much mourning on board your ship?" They answered,

"We are carrying slaves whom we captured in different countries; and those who are chained in the ship and will be sold as slaves are weeping."

10. Write a letter, in due from, of 10 or 12 lines to your teacher to say how you mean to spend the approaching summer vacation.

# ENGLISH.—THIRD PAPER. URDU TRANSLATION.

Dr. G. Thibaut, Ph.D. W. C. Horst, Esq. ... \ Examiners.

J. W. BACON, Esq., M.A.

ایک درویش ملک تاتار میں سفر کرتا هوا شهر بلخ میں جا پہونچا اور غلطی سے محل شاهی میں گهس گیا اور آوسکو سرای سیجها - تهوری دیر تک اید جارون طرف دیکه کرایک

برے دالاں میں چلا گیا۔ یہاں اپنا توشه دان رکھدیا اور اپنا بسترا آرام کرنے کے لئے بجهایا۔ اس حالت میں بہت دیر نہیں ہوڈی که پہرے داراں نے اوسے دیکھلیا اور پوچھا تمہارے یہاں آنیکا کیا کام ھی-درویش نے کہا کہ میرا ارادہ ھے کہ اِس سوای میں آج وات بسرکروں - پہرے داروں نے غصہ هوکن کہا کہ تم جس مکآن میں هو وہ سوای نہیں ھے بلکہ محل بادشاهي هے۔ يہ باتيں هوهي رهي تهيں كه بادشاہ بهي اوسی دآلان سے هوکر گذرا آوسکی غلطی پرمسکراکر پوچھاکه تمہاری عقل کتنی موتی هی که تم محل شاهی اور سرای میں تبیز نہیں کرسکے ۔ درویش نے کہا کہ اگر حضور کی اجازت هوتو میں دو ایک سوال عرض کروں - که جب یہ آوا بنا تب پہلے پہل اِسمیں کون آکر تہرا تھا - بادشاہ نے جواب دیا که میرے پرکھے - درویش نے پوچھا که سب سے پچھالا یہاں کون شخص بسا تھا۔ بادشاہ نے جواب دیا کہ میبوا باپ ے پیر درویش نے کہا کہ اب اِسمیں کون رھتا ھی – بادشاہ نے جواب دیا که میں خود رهما هوں - تب درویش نے پوچها کہ حضور کے بعد یہاں کون رهیگا - بادشام نے جواب دیا کہ میوا بیتا جو جوان شاہزادہ ھے۔ درویش نے کہا کہ حضور جو سكان الني رهنے والوں كو اتني بار بدلے اور هميشه نئے نئے مہمانوں کو جگہ دیوے وہ سرای ہے نہ کہ معل شاہی "

#### جسلهيسر

یہ راج جود لا پہنے مھی ۔ سنہ ۸۱ کی مردم شہاری میں آبادی دس لاکہ آتہ ہزار ایکسو ایکتالیس شہاری میں آبادی قریب دو لاکہ کے ھے۔ اِسکا رقبہ راجیوتانہ کے اور راجوں کے نسبت چوتنے درجہ میں ھے۔ مگر آبادی میں سب سے کم ھے بحساب اوسط سات آدمی بھی فی میل موبع اسہیں نہیں بستے۔ اس راج میں بیکانیر سے بڑا کر

ریگستان ہے - راستہ میں تین منزل تک بالکل پانی نہیں ملتا - مسافر مشكين بهر كر الله ساته أونتون بر ركم ايتم هیں - هندوستان کو براعظم کا چهوتا نمونه مانا جاوے تو خسلمیر کو ملک عرب کا ایک تکرا کہنا پریگا - سیکروں كوس تك ريكستان هي - ياني يهان بهت كم ملتا هي - تهول جیسے تربوز یہاں پیدا هوتے هیں۔ اونہیں کے پانی سے لوگوں كا كام چلتا هے ـ كوؤں ميں دو سو تھائي سو ھاتہ كي گهرائي پر پاني نکلتا هے سو بهي اکثر کهاري - رتيلے ميدانون کے درتیان میں جہاں اچھی زمین ملی هی آوسمیں گاؤں بسے هیں - اونت بھیر بکری اور دوسرے چوپایوں کے جھند کے جھند الوك إلالته هين - سن بكوماجيت كي سأتوين صدي مين مهاراج فيوراجنے إس راجكي بنياد دائي - سنه ١١٥١ عيسوي مين شهر جسلمير بسايا كيا - سنه ١٢٢٤ عيسوي مين علاوالدين خَلْجِيَ فَيْ جِسَلَمِيرِ بِرَ حَمِلُهُ كَيَا تَهَا مَكُرُ السِّيِّ رِيكُسْتَانِ ۖ يَاكُرُ چھوڑ دیا۔ اِسی سبب سے مرهتوں کے اُوت سار سے بھی بھا رھا۔ یہاں کے لوگ نہایت غریب ھیں۔ راجہ کے بہائی بندون میں راج بہت بنا ہوا ہے اسی سے مالگذاری اتنی تھوری ھے۔شہر جسلمیر گیارہ دزار آدمی کی بستی ھے۔ راجہ یہاں کے سہاراول کہلاتے ھیں \*

#### HINDI TRANSLATION.

एक दरवेश तातार देश में भ्रमण करता हुआ बल्ख़ नगर में जा पहुंचा और भूल से बादशाह के महल में घुस गया और उसकी सराय सम्भा। थोड़े देर तक अपने चारों तरफ देख कर एक बड़े दालान में चला गया। यहां अपना भीला रख दिया और आराम करने के लिये बिस्तरा बिखाया। इस अवस्था में बहुत देर नहीं हुई कि पहरे

बालों ने उसे देख लिया और पूछा तुम्हारे यहां आने का क्या काम है। दरवेण ने कहा कि नेरी इच्छा है कि दस सराय में आज रात विताजं। पहनुआं ने कीच मे कहा कि तुम जिस सकान में हो यह सराय नहीं है बादगाए का महल है। यह बातें हो रही घीं कि बादगाह भी उसी दालान से हो कर छा गये छीर उसके भूल पर सुन्किरा कर पूछा कि तुम्हारी शक्त कितनी माटी है कि तुम बादगाह के महल और सराय का भेद नहीं पहचानते। द्रवेश ने कहा कि यदि आप की आजा हो तो में दी एक पन्न करें। कि यह सकान जब पहिले बना या तब प्रयमकीन जाकर रहा था। बादगांह ने उत्तर दिया कि मेरे पुररो। द्रवेग ने पूछा कि सब से पहिना यहां कीन जर्म् बमा मा। बादेशाह ने उत्तर दिया कि मेरा पिता। फिर व्रवेश भे कहा कि अब इसमें कीन रहता है। बादगाह ने प्रवाद दिया कि सैं खुद रहता हूं। तब दम्बेण ने पृष्ठा कि छाप की पीछी यहां कीन रहेगा। बादबाह ने कता कि नेरा बेटा जी जवान शाहजादा है। दरवेश ने कहा जी मकान अपने दिक्ने वालों की इतनी बार चद्ते और नित्य नये र श्मिहमानों की जगह देवे वह सराय है न कि बादणाह का महल ॥

## जैनल्लीर ॥

यह राज्य योधपुर के पश्चिम है। सन् दर की महुंग भुनारी में श्चाबादी १००२२४१ थी। मानगुलारी शनुमान-दो लाख के लगभग है। विस्तार में यह राजपृताने के श्वीर २ राज्यों की अपेका चौथे श्रीण का है किन्तु शायादी में गज से कम है। वस्ती फ़ी मील मुरहा सात शादमी की भी

श्रीसत से नहीं पड़ती। इसमें बीकानेर से बढ़कर भी बलइ महम्मि है। रास्ते में तीन मंज़िल तक विलकुल पानी नहीं मिलता। बटोही मशकें भर कर जंटी पर अपने साथ रख लेते हैं। हिन्दुस्थान का यदि महाद्वीप की छोटी सी नकल मानी तो जैसलमीर की प्ररव देश का एक टुकड़ा कहना पड़ेगा। सैकड़ों कोश तक बलुद मरुभूमि हैं। पानी जहां अत्यन्त दुर्लभ है। ढोल ऐसे तरबूज़ यहां पैदा होते हैं। उन्हों के पानी से यहां का कास चलता है। कुन्नों में दी सी ढाई सी हाथ की गहराई पर पानी निकलता है। सा भी बहुधा खारी। बालए सैदानों के बीच कहीं पर जहां अच्छी ज़मीन आ गई है उसमें गांव बसे हैं। जंट भेड़ी बकरी तथा दूसरी चौपायों के आंड के आंड लोग पालते हैं। विक्रमादित्य के संबत् के सातवीं शताब्दी में सहाराज देवराज ने इस राज्य की बुनियाद डाली । १९५६ ई० में जैसलमीर का नगर बसाया गया। १२२४ में प्रालाउद्दीन ख़िलिजी ने जैसलमीर का आक्रमण किया। किला इसे महसमि समम छोड़ दिया। इसी कारण मरहहों के लूटमार से भी बचा रहा। प्रजा यहां की अत्यन्त गरीब हैं और राज भाई बत्युयों में बहुत बटा है इसी से मालगुज़ारी इतनी थोड़ी है। जैसलमीर का शहर १९००० प्राद्मी की बस्ती है। राजा यहां के महारावल कहलाते हैं॥

#### MATHEMATICS.

## ARITHMETIC AND ALGEBRA.

Babu Mohindra Nath Dutt, M.A. Pandit Sudhakar Dube,  $\ldots$  Ex

 $\it Examiners.$ 

1. (a) Explain what is meant by the following terms:

Prime factors; common measure; common multiple;

lowest common multiple.

(b) A courtyard, 432 feet long 404 feet wide, is to be paved with square stones all of one size. What is the largest size which can be used?

2. (a) Simplify 
$$\frac{5.75}{4.25}$$
 of  $\frac{1}{4} \div \frac{8}{7} + \frac{4}{9} \times \frac{3}{5} \times \frac{1}{2}$ .

(b) Find the square root of 34415926 to four places of decimals.

3. The difference between the interest for 4 months, and the Discount, on a certain sum due in 4 months at 4

per cent., is one rupee. What is the sum?

- 4. A merchant sells silk of two qualities which cost him Rs. 5 5as. 4p. and Rs. 4 4as. 4p. per yard, respectively. The selling price of the latter is two-thirds that of the former, but the quantity sold is double and the merchant gains 25 per cent. on the whole. Calculate the selling price per yard of each.
- 5. A policeman goes after a thief who has 100 yards' start; if the policeman run a mile in six minutes, and the thief a mile in ten minutes, how far will the thief have gone before he is overtaken?

6. Resolve into factors:

(i) 
$$x^3 + 4x^2$$
 (ii)  $x^3 - x^2 - x - 1$ , (iii)  $a^2 h^2 - a^2 - h^2 + 1$ .

7. Simplify 
$$\frac{x}{(x-y)(x-x)} + \frac{y}{(y-x)(y-x)}$$

$$\frac{z}{(z-y)(z-y)},$$

8. Solve

(i) 
$$\frac{1}{\sqrt{x-1}} + \frac{1}{\sqrt{x-2}} = \frac{3}{\sqrt{x-3}}$$
  
(ii)  $\frac{(a+b)x + (a-b)y = 2ax}{\sqrt{x-3}}$ 

(ii) 
$$(a+b)x+(a-b)y=2ac$$
,  $(b+c)x+(b-c)y=2bc$ ,

9. If a: b=b: c shew that a²+ab+b²: b²+bc+c²=a:r.
10. Two sums of money are together equal to £ 5‡ 123.

and there are as many pounds in the one as shillings in the other. What are the sums?

# GEOMETRY AND MENSURATION.

BABU SARAT CHANDRA MUKERJEE, M. A. BABU UMESH CHANDRA GHOSH, M. A. Examiners.

1. A triangle ABC and a parallelogram APQC, are on the same base AC and on the same side of it, the perpendicular from B and P on AC are given equal, shew—

(i) that BP is parallel to AC.

(ii) that BP and PQ are in one straight line, and (iii) that the parallelogram is double of the triangle.

2. Prove the sixth proposition of the Second Book and thence deduce that the rectangle contained by any two unequal straight lines is equal to the difference of the squares on half their sum and on half their difference.

3. (a) Shew that two concentric circles cannot meet.

(b) If a straight line touch a circle, and from the point of contact a straight line be drawn cutting the circle, the angles which this line makes with the line touching the circle shall be equal to the angles which are in the alternate segment of the circle.

4. Describe a regular pentagon about a given circle.

5. Give in each case the construction only of the particular line (straight or curved) in which the following points must lie:—

(a) The vertices of all right-angled triangles standing upon the same

given hypotenuse DE.

(b) The vertices of all isosceles triangle on a given base FG.

(c) The centres of all circles touching the same two given straight lines KL and KM.

6. If a quadrilateral be bisected by each of its diagonals, shew that it is

a parallelogram.

7. The difference between the areas of two squares inscribed in and

circumscribed about a circle is 338 sq. ft.; find the radius of the circle.

8. The opposite sides of a quadrilateral are parallel and the distance between them is 7 chains 50 links; if the area is 6.75 acres and the length of one of the parallel sides is 10 chains 30 links, find the length of the other.

9. Plan a field from the following notes and find its area in acres, roods,

and poles :-

	Links	
	A	}
	500	
	380	25 G.
	C	
Turn	to tho	right
	C	, ,
	500	
F 175	220	
•	В	
Turn	to the	right
	В	
	800	
E 100	650	`
D 200.	. 400	
	A	

#### ARABIC.—FIRST PAPER.

MAULVIE MOHAMMED ABBUL JALIL, Examiner.

1. Translate the following into English:—

بني المهامون قصرا عظيما وصوت فيها مبالغ كثيرة وجاء
البهلول يوما از يارة المهامون و كان جالسا في قصره فقال
المهامون يا بهلول اكتب شيمًا على هذا القصر فاخذ البهلول
فحما و كتب رفعت الطين و وضعت الدين رفعت المجسرفين
وضعت المنص ان كان من مالك فقد السرفت والله لا يحب المحسرفين
و ان كان من مال غيرك فقد ظلبت والله لا يحب الظالمين «

2. Re-write the above extract with vowel points.

3. Translate literally into English, and explain the grammatical points contained therein:—

جاء نعوي علي باب نعوي فدن بابه فقال من انت فقال الزائر احدد فلجاب صاحب الدار انصرت فقال احدد لاينصرت فلجاب اذا كان نكرة ينصرت \*

4. Explain the following in English, and name the book from which it is a quotation:—

البخل عيب فاضم الجود ستر مالم العقل قاض عادل العجب داء قاتل العمر ضيف راحل البسال ظل زائل العدر في الشدائد الدائد الدائد

5. Name the author of the following verses, and translate them into Euglish:—

اذا عاش امرؤ ستين حولا فنصب العهر تهحقه الليالي ونصب النصف يهفي ليس يدري الخفلته يهينا عن شهال و ثلث النصف آمال و حرص وشغل بالهكاسب و العيال و باقي العهر اسقام و شيب و هم بار تحال و انتقال فعب الهرا طول العهر جهل و قسهته علي هذا الهثال

6. How do nouns of the form of the, when expressing the comparative and superlative degrees, form their feminines? Give examples.

#### ARABIC.—SECOND PAPER.

Maulvie Syed Rahimuddin, Examiner.

N.B.—Give vowel marks to every Arabic words you make use of in your answers.

- 1. Translate the following into English:—
- المسلم من سلم الناس من يدة و لسانه-عزالدنيا بالمال وعز الا خرة بصالم الاعمال لا غربة المفاضل و لا وطن للجاهل عش ما شئت فانك ميت الخمر جماع الاثم-عليكم انفسكم لايضر كم من ضل اذا اهتديتم العاقل يتعظ بالادب والمبهائم لا تتعظ الا بالضرب ما شر بعدة الجنة بشرو لا خير بعدة النار بخير من ابصر عيب نفسه اشتغل عن عيب غيرة و الحرص مفتاح التعب و مطية النصب من حفر بئرا لاخيه فقد وقع فيه اذا تم العقل يقص الكلام من هتك حجاب اخيه هتك عورات بنيه اقل الناس فيهة اقلهم علما من اعجب براء ضل و من استغني بعقله زل و من تكبر علي الناس اعجب براء ضل و من استغني بعقله زل و من تكبر علي الناس زل من لم يتعلم في حغرة لم يتقدم في كبرة \*
- 2. Mention حررف الايجاب and their different usages with examples.
  - 3.: Translate into Arabic:

God! there is no God but He. Probably there are 13 men and 14 women in the house. Had he learnt the lesson, he should have been given 700 Dinárs 24 Dirhams and 5,000 ξω of wheat. What you call me for? I did not send for you. The house has been built. A certain man came four days ago.

4. Define with its two kinds, illustrating your answer with examples.

3. Translate into English:—

المرم بفضيلته - لا بفضيلته - كل يحصد مازرع ويجزاي بما منح - من اطاع هواه باع دينه بديناه -- اذا ذهب الحياء حل البلاء -- اذا اصطنعت المحررت فاستره و اذا اصطنع اليك فانشرة -- من طاب اصله زكي قرعه -- من قال ما لا ينتبي سمح ما لا يشتهي -- من ازم الرقاد عدم المواد -- من دام كسله خاب امله - من نظر في العواقب سلم من النوائب - من امارت المخدلان معاداة الاخوان - من ركب العجل ادركه الزلل من فعل ماشاء لقي ماشاء أ انتم تزر عونه ام نعي الزار عون الناوا عون الناوا عون الناوا عون الناوا عون الناوا عون الناوا عون الله الناوا عون الناوا الناوا عون الناوا الناوا الناوا عون الناوا الناوا الناوا عون الناوا عون الناوا عون الناوا عون الناوا الناوا عون الناوا الناوا عون الناوا الن

6. How do the مرنينيو divide and subdivide Arabic words? Mention the various divisions and subdivisions with examples.

7. Translate into Arabic:—

As soon as you came he went away. They came to-day at 7 o'clook evening. He went away, yesterday at 10-20 A.M. No sooner did you come than he fled away faring slaughter. The sooner the better. The war went on for years. The moon rose full. Amr and I, while going an engaturek the boy before the teacher on linday, a severe blow by way of correcting him. Alas! we lost the noble to finanskind in knowledge and in wisdom. Here came the team the most learned. You are more pions than I. How handsome he is! What a fine horseman you are! How many men are there in the house? He said so and so. Paradice is at the feet of mothers.

8. Mention, define, and illustrate the various kind of of and also give an example containing all of them in one

and the same sentence.

#### PERSIAN.—FIRST PAPER.

MAULVIE SYED KALAN
SYED ABBULLAH

\*\* SYED ABBULLAH

\*\* Examiners.

. I. Translate the following passages into English:-

توانگر زادهٔ را دیدم برگور پرر نشسته بود و با درویش (۵)

جههٔ به مناظره در پیوسته که گور پدرم سنگین است و کتابهٔ

رنگین و فرش رخام و خشت فیروزه بکار بوده وبگور پدرت

هه ماند حشتے دو فراهم آورده ومشتے خاک بر آن پاشیده و درویش پسر که بشنید گفت تا پدرت از زیر آن سنگ گران بر خود بجنبد پدرم به بهشت رسیده باشد \*

سگے را گفتند سبب چیست که در هر خانه که باشی (۵)
گدا گرد آن خانه نتواند گذشت - گفت من از حرص و طبع
دو رم و به بے طبعی و قناعت مشہور - از خوانے به تنک نانے
قانعم - و از بریانے به خشک استخوانے خرسند - اما گدا سخرهٔ
حرص و طبع او مدعی جوع و منکر شبع - نان یک هفته اش
در انبان و زبانش در طلب نان یکشنبه جنبان \*

- نتوانگر زاده گور پدر درویش بچه فرش رخام سخرهٔ محرص نان یکهفته -
- 3. Explain, in your own Persian, the sense of the following sentences:—

عامل بودن بر عقائد و مستقل ماندن در عین شدائد و مقصر نبودن در امود دنیوی از تدبیر-دیر پائی خاندان از ترحم نبودن بر یتیهان و محتاج نشدن خود از کامروائی معتاجان انصرام امور ملکی بصلاح و صوابدید وزرا - مظفر ومنصور بودن باستهداد ههت فقراء - تندرست ماندان از نید ازائهٔ درد دردمندان امید رحمت داشتن از جناب حق بعفو جرائم مجرمان \*

4. (a) Name the book from which the above sentences are taken. Who quoted them?

(b) What are the roots of انصرام and ? Give their ? literal meanings.

5. (a) Write out the meanings of the following words in English; and mention their singular or plural:—

حصاء - وريد - ذمائم - زمام - جيران - زنديق - زوائم حفّار - افعي - حوصله - و دائع - طريق - وصايا - اسلان - زمره - بنادر \_

(b) Explain the formations of the following words: -

گرداب - برملا - مغيلان - خانقاه - بربط - دشنام -

6. Translate the following couplets into English:-

اگر پائی در دامن آری چوکوه سرت زآسهان بگزردهمشکوه (۱۱)

زبان درکشای مرد بسیار دان که فردا قلم نیست بر بے زبان صدت وار گوهر شناسان راز هدهن جز به لواو نکردند باز قراران سخن باشد آگنده گوش ف نصیحت ندگیرد مگردر خهوش بدر سمداد خواهان دادبرداشت ف زدل ناله زجان فریاد برداشت (۱۰)

زبس بر آسهان میشد زهرسوی ف نقیر چا و شان طرقوا گوی زبس بر گوشها میزد زهر جای ه مهیسل مرکبان باد پیهسای کس از غوغا بحال اونیفتاد و بحالی شد که آنرا کس مبیناد به شهر خویش بسے بیقدر بود مردم (۵)

به شہر خویش بسے بیقدر بوده مردم (٥)

به کان خویش بسے بے بہا بود گوهر

درخت اگر متحرک شدے زجای بجای

نه جور ارم کشیدے و نے جفای تبر

اگرچه دوست عزیزاست راز دل مکشای

که دوست نیز بگوید به دوستان دیگر

بکوش تا بتوانی دلی بدست آری

که در جہان بدازین نیست هیچ جان پدر

7. Explain the meanings of the following couplets in simple Persian:—

هان مشو نومید چون واقف نهٔ زاسوا رغیب باشد اندر پرده بازیهاے پنهان غم مخور

هر که سرگردان بعالم گشت وغید خوار نیافت آخر الامر او بفهخوارے رسد هان غم مخور در بیابان گربه شوق کعبه خواهی زن قدم سوزنشها گر کند خار مغیلان غم مخسور حال ما و فـرقت جانان و ابرأم رقيب جمله ميداند خدائے حال گردان غم مخور اے دل از سیل فنا بنیاد هستی بر کند چون قرا نوم است کشتیبان زطوفان غم مخور

- 8. What are the original meanings of the words کعبة-بیابان and قيب ? Account for their secondary meanings.
- 9. Translate the following quatrain into English; and write down a short biography of its author in Persian.

ويكانه اگر وفا كند خويش من است \*

ور خویش خطا کند بداندیش من است

گر زهر موافقت كند ترياك است \*

ور نوش مخالفت كند نيش من است

10. Define ترابع. Name its divisions and sub-divisions with examples.

#### PERSIAN.—SECOND PAPER.

MAULVIE SYED AMJAD ALI, M.A. ALI KHAN,

... Examiners.

1. Translate into English :-

(a) یکی صعوع را بگرفت گفت چه خواهی از سن گفت آنکه ترا بکشم و بخورم گفت از خوردن من چیزے تیاید ایکی سه سخن ترا بیاموزم که آن ترا بهتر از خوردن من بود اما یکی در دست تو بگویم و دیگر وقتی بگویم که سرا رها كني تا بر درخت نشينم و سوم انگام گويم كه از درخت بر سر کوه بپرم گفت اول بگو گفت هرچه از دست تو رفت بر

آن حسرت مخور رها کرد تابیرید بر درخت نشست گفت

دوم بگو گفت سخن محال باور مکن و بهرید و بو سو کوه نشست گفت اي بديخت اگر سرا بكشتي توانگر شدي كه در شكم من دو مروآريد است و هو يكي بيست مثقال است و هوگز درویش نشدی آن مرد انگشت در دندان گرفت و گفت دریها اینست افسوس گفت اکنون سرم بگرگفت تو آن دو را فراموش كردي سوم چه كني ترا كفتم بر رفته حسرت مخور و معال باور مکی می در قست تو با همه گوشت و پوست و پروبال دی مثقال نبودم در درون من مروارید بیست مثقال چون بود این بگفت و به پریده h) پادشاهي بشکار ميرفت آزادهٔ را ديد سگي، به پهلو بسته و خودش خرم نشسته وزير را گفت بيا كه دآي بديوانه خوش کنیم گفت نه که بے ادابی گند گفت باکے نیست رفت و كفت اے 'آزاد سكت خوبتر آست ياخودت كفت قربان شالا سگ زنهار از فرمان این گدا سر نتابد پس شاه و گدا اگر خدا را فرمان بریم از سگ بهتریم ورنه سک از هو دو بهتر آ الله آورده اند که غلامي از شهر روم گريختي بود و بجزم و طي خود صمرا نوردي از آغاز كرد، روزے بصمرائے رسيد و از خارے صداے تعیرے بگوشش آمد ترسید اما شیر پیشش بیامد و پنجهٔ خود را برزانویش نهاه دید که از جراحت خار آما سيده است غلام بنرسي و سرعت تهامتر خار را از پنجه اش برآورد شیر چون ازین درد نجات یافت دست و پاے غلام را لیسیدن گرفت و بدین احسان او را صاحب خود می پنداشت در این اثنا مالکش به جستجوے بسیار خود را در آنگجارسانید و غلام راکرنته بروم برده وبجرم گریختی حکم نهود که در قفس در ندگانش قید کنند و شیریرا که هم در آن مدت گرفتار آمده بود سد روز گرسند داشته بیآوردند و بران غلام رهاکردند چون

نظر شیر برین غلام افتاه دست و پایش لیسدن گرفت و چوا سگ آموخته خندی پس و پیش دویدن میگویند که این ازههان شیر زخم خورده و از دست این غلام جان بسلامت برده بود العاصل غلام و شیر هر دو را رها کردند واین حیوان شکر گزار در خدمت غلام مانند غلام وفادار تا حیات خود بود «

#### 2. Translate into Persian :-

Cræsus was proud of his wealth and loved to display it; but he was at the same time a gentle and estimable prince, fond of learning. It is said that Æsop, the clever deformed slave, composed for his benefit many of the fables which have since almost passed into proverbs. Another visitor at his court was Solon, one of the seven wise men of Greece, to whom Cræsus showed the whole bright array of his treasures, and asked at the end, "Whom do you think the happiest of men?"

Solon answered by naming a Greek, who had spent a quiet, useful, and peaceable life, and died at last while fighting in the eause of his country.

Cræsus who had expected to hear himself named, desired to hear whom Solon deemed the next happiest.

He mentioned two youths who had shown such pious affection to their mother, that she prayed that they might receive the best reward that Heaven could bestow upon man. While she was yet praying, they fell asleep, and their sleep was a peaceful death.

"These" said Solon, "were the next happiest."

"Do you not, then, think me a happy man?" said Cræsus, vexed at seeing how little account the wise man seemed to take of his wealth.

"Alas!" said Solon, "who can be said to have been happy while he still lives?"

Two years after, Cræsus was obliged to own the truth of this reply, when he lost his eldest son by an accident. Soon after he rashly entered upon the war with the Medes and Persians, who totally defeated him. Cyrus made Cræsus prisoner and ordered him to be burnt to death. The pile of wood was raised, and Cræsus was chained to it, when at that very moment calling to mind the saying which had warned him not to trust in present prosperity, he broke out into an exclamation of "O Solon, Solon, Solon!"

Hearing the cry, Cyrus asked its meaning, and desired that the captive should be led to him to explain it. He was so much struck by Solon's lesson, that he not only spared the life of Cresus, but made him his favoured friend and counsellor ever after, seeing in his misfortunes a warning against putting too much confidence in the power and greatness to which he was at present raised.

SANSKRIT.—First Paper.
PANDIT RAMSASTRI TAILANG, Examiner.

1. Translate the following into English:—

प्रयं निजः परी वेति गणना लघुनेतमाम् ।

उदारचरितानां तु वसुधेव कुटुम्बकम् ॥

यथा स्त्रोकेन पादेन न रथस्य गतिभंवेत् ।

विना पुस्पकारेण तथा देवं न सिध्यति ॥

श्रयेवं जरुपतां तेपां चित्राङ्गदो नाम हरिगो लुड्थकत्रासितस्तिस्मन्नेव सरिम प्रविष्टः । श्रयायान्तं तं समस्त्रममवलोक्य लघुपतनका वृद्यमारुढः । लघुपतनका सृगं सम्यक्
परिज्ञाय सन्यरकमुवाच । एत्त्रोहि सखे सन्यरक वृपार्तीऽयं
सृगीऽत्र समायातस्तस्य शब्दोऽयं न मानुषसंभव दृति ।

- (a) Parse the words कुटुन्यकम, संसभूमम्, यूनाम् जन्मनाम्, मन्य and नाम.
- (b) Give the roots of आकृदः, परिज्ञाय, उपाय, and एटि ; and conjugate them in the third preterite लुए).
- (c) Decline समुचेतस्, जल्पत्, and सर् in the nominative singular and plural numbers in all genders.

(d) Expound, and name, the samisas in the underlined words.

(e) Analyze the sandhi in परीगेनि, यस्मिलंब, अधीवस्, भ्यार्थः and श्रोहि.

II. Explain in Sanskrit:-

- मनसा चिन्तितं कार्यं वचमा न प्रकाणघेत्।
   प्रन्यलितकार्यस्य यतः सिद्धिनं जायते॥
- 2. सेवितव्यो महावृद्धः फलच्छायासमन्वितः। यदि दैवात् फलं नास्ति छाया केन नियायंते॥

- 3. चलत्येकेन पादेन तिष्ठत्येकेन बुद्धिमान्। नासमीच्य परंस्यानं पूर्वमायतनं त्यजेत ॥
- 4. श्रापदर्घे धनं रह्नेद्वारान् रह्नेहुनैरिप । श्रात्सानं सततं रह्नेद्वारैरिप धनैरिप ॥
- (a) Parse the underlined words.

(b) Decline दार and आत्मन in all cases.

(c) Write out the first line of extracts 1 and 3 in the

above, using the passive construction.

(d) Conjugate the root श्रम् in the first and third preterites (जह and जुङ्).

III. Turn into simple prose:

- (a) कारु यं संविभागश्च यस्य भृत्येषु सर्वदा । संभवेत्स महीपालकी लोकास्यापि रह्या ॥
- (b) अंजनस्य घ्यं दृष्ट्वा वल्मीकस्य च संचयम्। प्रवन्ध्यं दिवसं कुर्याद्वानाध्ययनकर्मेष्ठ ॥
- (c) श्रत्पानामपि वस्तूनां संहतिः कार्यसाधिका । मृर्गेग्रात्वमापनेर्बेध्यन्ते मत्तद्गिनः ॥
- (d) एकेनापि खुवृद्धेण पुष्टिपतेन खुगन्धिना। वासितं तद्भनं सर्वं खुपुत्रेण कुलं यथा॥
- (1) Translate the extract (c) into English.
- (2) Explain the formation of the words दूष्ट्रा and इन्तिन:
- (3) Expound, and name, the samasa in हानाध्ययनकार्भस्.

IV. Correct the following:—

# बहुभिर्मूर्खसंघातैरन्योन्यपशुवृत्तिभिः। प्रच्छाद्यन्ते गणान् सर्वे मेघा इव दिवाकरम्॥

- (a) Write out the purport of the above extract, in English or Hindi.
  - (b) Afrer correction change the voice of the above extract.
- (c) Decline सर्व in the dative (चतुर्थी) genitive (षड्टी), and locative (समर्ग) cases in the masculine gender (पुद्धिद्धा).

V. Write down the meanings of the following words:—
यूषम्, वैद्यस्य, अनागतविधाता, प्रत्युत्पनगतिः, अष्टा-

यूषम्, वैद्यस्य, अनागतविधाता, प्रत्युत्पन्नमतिः, अष्टा-पदम्, लघुपस्ताः, सन्त्रः, व्यवमायः, श्रोत्नियः, and गरीयः।

#### SANSKRIT.—Second Paper.

PANDIT DEVENDRA NATH CHARRAVARTI, M.A., Examiner.

1. Translate into Sanskrit:-

(a) Nothing useful can be done without a good will towards it.

(b) The main object of our lives should be to learn our duty to God and man, how to govern ourselves, and be useful to others.

(c) If a king were not prompt in inflicting punishment on the wicked, the stronger would proy upon the weather.

- (d) In this country the leaves of trees wither in summer and sprout again in the rains. In cold countries they fall off in winter.
  - 2. Translate into English:-
  - (a) पडेव तु गुणाः पुंसा न हातव्याः कदाचन । सत्यं दानमनालस्यमनमृया हाना पृतिः ॥
  - (b) सन्तियच्छति यो वेगमुत्थितं क्रोधहपंयोः । स श्रियो भागनं यंभ्यं यस्त्वापत्मु न मुद्धाति ॥
  - (e) धनानि जीवितञ्चेव परार्थे प्राप्त उत्मजेत्। सन्तिनित्ते वरं त्यागो विनागो नियते मसि॥
  - (त) चमातुल्यं तपो नास्ति न सन्तोपात्परं सुग्रं। न च तृण्णापरो ट्याधिनं च धर्मो द्यापर:॥
  - (e) श्रासनात् शयनाद्पानात् सम्भाषात् सहभोजनात् । संक्रामन्ति हि पापानि तेलियिन्द्रिवाम्भि ॥
    - (f) पुरा हस्तिनापुरे नगरे महाबीरनामा नृपतिर्थभृव।

स त्यागी, मेघावी, रूपवान्, सरलञ्च । कदाचित् रात्री स निजनगरस्य मध्ये परिश्रमति स्म । पिष एकस्मिन् गृहे गाथामेतां शुष्राव । तद्यथा— हंसाःसर्वत्रसिताः शिखण्डिनः सदा चित्रताङ्गहहाः । सर्वत्र जन्ममर्गो सर्वत्र विभोगिनो भोगाः ॥

इमां गाथामाक एयं राजा चिन्तयामास त्रयाणां पादा-नां अर्थः प्रत्यन्नं दृश्यते परं एतत् वचनामात्रं न पुनः प्रत्यन्नं यत् मोगिनः सर्वत्र भोगा भवन्ति । एतत् श्रालीकं । श्रहमत्र भोगवन् वर्त्ते, यदि एवं विधा भोगा मम विदेशेऽपि भवन्ति तदा एतत् सत्यं वचः । इति चिन्तयित्वा नगरप्रान्तं गतः । तत्र राज्ञा चिन्तितं, रूपवान् पुरुषः सर्वत्र गौरवं लभते । ततः कारणात् विनष्टदेहो बभूव । किं बहुना श्रातीवकुः रूपः बिलोक यितुम शक्य श्य जातः तादृशः स राजा तत्रस्थे एक स्मिन् प्राप्तादे उपविष्टः नगररमणीयतां विलोक यति स्म ।

(g) पापं हन्ति ज्ञानवृद्धिं विधत्ते धर्मं दत्ते काममर्थञ्च सूते। मुक्तिं दत्ते सर्वदोपास्यमाना पुंसां श्रद्धाशालिनी विष्णुभक्तिः॥

#### HISTORY.

REV. L. F. PHILLIPS, M.A. B. D. GORDON, ESQ.

Examiners.

Give accounts of the reigns of Alfred the great and Anne.
 Narrate briefly the doings of English Sailors in the reign of Queen Elizabeth.

3. Point out the chief steps from first to last by which the Roglish Parliament advanced to be a representative body.

State the causes which fed to the Crimean War and its result a

Describe the reigns of Asoka and Aurangreh.

How often did Mahmud of Charni invade India! Give his chief б. exploits.

. 7. Give an account of the Portuguese Duninium in India.

Sketch the rise and fall of the Mahratta power.

Between whom were these battles fought and with visit results? Eveshin, Bannochurn, Towton, Naseby, Quiberon Bay, Victoria, Thaneswar, Panipat (3) Baxar.

10. What do you know of the following :--

Stonehenge, Peter the Hermit, Star Chamber, Utopia, South Sea Bubble, Arkwright, Joi Pal, Permanent Land Settlement, Percen, Ochterlony, Tantin, Cavaguari.

#### GEOGRAPHY.

BABU GYANENDRA NATH GHARRAVARTI, M. A.) Louminger.

1. (a) Name the principal Native States of India with the chief tower of each.

(b) Name the settlements owned by other Europe in national lend of the

British in India.

- (c) Describe the geography of Bengal, noting the following particulars of its natural divisions, rivers, chief towns, agricultural, and mining products
  - 2. (a) Where are the following straits: --

Torres, Dardanelles, Malacca, Florida, The Sound, Path, and Van Sound? (b) Give the position of the following capea: --

Matapan, Byron, Romania, Finisterre, Blanco, Land's Fact, Horn San Roque, and Baba.

Draw an outline map of the continent of America, and much points in

of the following on it:---

(a) The countries which border on the Pacific.

- (b) The course of the following rivers ;-the Amazon, the St. Lawrence, and the Mississipi.
  - Name :-

(a) The rivers which fall into the sea of Arat.

(b) The mountain which reparates France from Spain.

(c) A peninsula of Asia projecting Westwards.

(d) The highest mountain in Britain. (c) The Portuguese settlements in Africa.

(f) The British settlements in the West India Islands.
(g) The capital of Chili.

(h) The natives of New Gninea.

What and where are the following :-

Shillong, Sufed Koh, Shanghai, Perim, Leeds Belgrade, Canary, Tehnantopac, Titicaca, and Hawaii?

- 6. Explain with the help of a diagram why the torrid zone is hotter than the frigid zone.
- 7. Enumerate the different causes which promote the rapidity of evaporation. Why does the outside of a glass, containing water with ice in it, become covered with drops of water?
- 8. From what various sources do large rivers rise? Describe the cause of the annual flooding of the Mahanadi and other rivers of the Indian Peninsula. Explain how lakes regulate the flow of rivers issuing from them.

9. Write short notes on the following:

The Gulf Stream, the height of the snow line on the Himalayas, spring and neap tides, and the season.

#### GEOMETRICAL DRAWING.

#### G. T. SPARKE, Examiner.

1. Show on one figure the  $\frac{1}{4}$ ,  $\frac{1}{2}$ ,  $\frac{1}{8}$  of a line AB.

2, Draw an isosceles triangle with base 3 inches and vertical angle 30°.

3. Circumscribe an octagon about a square, with  $\frac{1}{2}$  inch

side.

4. A circle is ½ inches in diameter: find the centre, and

draw a tangent to the circle from a point 1 inch outside.

5. A drawing has no scale on it, but it is found that a measurement of 24 feet is represented by 3 inches: make a diagonal scale for the drawing to read to inches.

6. About a circle 3 inch radius describe 6 circles, each

touching two others and the given circle.

#### ELEMENTARY PHYSICS AND CHEMISTRY.

#### BABU GYANENDRA NATH CHAKRAVARTI, M. A., Examiner.

- 1. Explain clearly why bodies lose in weight when immersed in liquids. A body loses 8 ounces in weight when immersed in water; what weight will it lose when immersed in mercury which liquid is about 13 times as heavy as water.
- 2. Describe the syphon and explain the principle on which it works. Why does it not work unless it is previously filled with water? In immersing the shorter end of the syphon in water a small bubble of air has been allowed to get into it. Describe the affect of this on the action of the syphon.
- 3. What do you mean by 'heat'? On what effect of heat does the use of thermometers depend? Describe the process of making a mercurial thermometer.

. 4. Define 'Evaporation.' Why does water usually get cooled by being kept in Surahus? Also explain the principle on which the action of runkhas depends in producing a sensation of coolness in our bodies.

5. Distinguish clearly between foodduction, and foonvection of heat, illustrating your answer by examples. Why do we put on weeks clothing

in the cold weather, and why is ice kept wrapped up in woolen blanket?

6. Explain what is ment by 'refraction of light' and describe an experi-

ment to illustrate it.

7. What do you understand by the terms "acid," "alkali," "salt."

"crystal" and "metal" as used in Chemistry?

8. Define 'hardness of water.' It is a well-know fact that the temperary hardness of water may be removed by pouring in a little lime-water and then filtering the water. Explain carefully what happens to produce this result.

9. Describe the different forms in which carbon exists in the free state.

Describe an experiment to prove that vegetable matter contains carbon.

10. What metal exists in the liquid state at the ordinary temperature? Mention some of its properties and its more important compounds. Also mention some of the uses of mercury that you may be acquainted with.

#### BOOK-KEEPING.

#### B. D. Gordon, Esq., Examiner.

I. Give the name of the book in which you would enter each of the following transactions: and write the entries exactly as they should appear in the books:—

(a) On the 4th December, I sold for ready money chooses

weighing 1 cwr. 2 qrs. 6 lbs. at 14 as. per lb.

(b) On the 7th I bought for ready money 10 dozen plated forks at Rs. 15. 4 as, per dozen.

- (c) On the 8th having occasion to pay certain house-keeping expenses, I drew a cheque on the Allahabed Bank for Rs. 100.
- (d) On the 10th I gave my acceptance for Rs. 450 at 2 months to James Knox, he having drawn the bill the same day and I having made it payable at the Allah shad Bank.

(e) On the 15th 1 paid for wages the sum of Rs. 20-8-6.

II. (a) What is a trial beliance? What does it proces! What errors are not checked by it?

(b) What is the difference between a Real and a Personal Account? How are Real accounts closed? What is a Nominal Account?

#### 161 7

(c) What is a Bill of Exchange? Name the different kinds and state their use. What is meant by dishonouring a bill and what by retiring a bill?

(d) Write out a specimen form of an accepted draft for Rs. 1,000 payable at 6 months.

III. From the following statement make out "cows," "sheep" and "trade expenses" accounts; carry to Profit and Loss account balance; and carry to Capital account:—

	, , , , , , , , , , , , , , , , , , , ,	-2 T				
	-		• `	Rs.	a.	p. '
Jan.,	12th Bought cows			850	0	0
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	17th Travelling expense	s		25	.6	6
32	25th Bought sheep	•••		415	0	0
Feb.,	1st Wages	•••		22	0	0
,,	10th Income tax	•••		7	5	9
, ,,	15th Sold sheep	***		310	8	0
	19th Bought cows	•••		225	.0	0
	24th Stamps and Statio.	nery		. 4	3	6
	1st Wages	•••	• • •	28		0
39	3rd Paid bunniah for gra	ain		99	7	6
. ,,,	9th Rent	•••		27	5	0
"	15th Sold cows	•••		573	0	0
· 1)	23rd Bought sheep	* * a	•••	87	0	0
'April,	1st Wages	•••		24	0	0
11.71	3rd-Travelling expenses			31	12	0
, ,,,	Sold sheep	•••		204	0	´ O·
"	Sold cows .	•••		409	0	0
"	Value of cows unsold			256		0
33	Value of sheep do.			175	0.	.0
	•				٠ -	-

# IV.—(1) Journalise, (2) Post, (3) Prove:—

i .		-	Trs.
Dec., 1st Cash in hand	•••	•••	7.0
" " Goods in " …	• • •		194
", ", I owe Mr. Murray	*** * • • •;	• • • •	120
" "Mr. Dawson owes me	•••	-,	200
" " Taylor Bros. owe me	•••		350.

, "M. Dawson settles his account less 5% discount.

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Dec.,	3rd Sold goods to H. Branson			80
. ,,	10th Bought of Mr. Murray			140
. ,,	11th Paid Mr. Murray	•••		240
11	" And he allowed me discount	•••	•••	20
	" Sold goods to Howards & Co.	• • •		130
"	25th Monthly cash rates .	• • •		930
	31st Trade expenses			20
, ,,	" Personal	•••		50
"	"Value of stock		• • •	1,240

#### POLITICAL ECONOMY.

#### C. H. LINTON, Esq., M.A., Examiner.

- 1. Show how the science of Political Economy is a practical science; that is, a science which treats of questions that belong to min's every day business life.
- 2. What is the real nature of money? What do you mean when we speak of the price of money? When people were unacquainted with the science of Political Economy what mistake did they make in regards to money? What is the name by which the error is generally known?
- 3. What is wealth; and what qualities must it have? What is capital? It is said that all capital is wealth, could we say that all wealth is capital? If not, why not?
- 4. State Ricardo's theory of rent? Give an illustration of the pranter in which the margin of cultivation varies with the price of agricultural had. Does rent affect the price of agricultural produce? Give your reason for your answer.
- 5. What is meant by the phrase 'division of labour'? What are the advantages that result from a 'division of labour'? What are wagen? Supposing the population of a country continued to increase, while its capital remained the same, what effect would this have on wagen?
- 6. What do you understand by trade? Unions; Steller; Locksonts; Co-operative Societies? It is said that a strike means a loca to workmen and employers; could you explain in what way?
- 7. What is credit? If my credit is good, may I not say that my capital is increased to the extent of my credit?
- 8. What is taxation; What principles should be observed in enforcing taxation? Why should taxes not be levied on row material?

# ENTRANCE AND SCHOOL FINAL-EXAMINATIONS, 1896.

#### ENGLISH.—FIRST PAPER.

REVD. G. H. WESTCOTT, M.A., ... }

J. W. BACON, Esq., M.A., ... }

Examiners.

F. G. HOUSDEN, Esq., M.A., ... }

- 1. Give in your own words, the meaning of the words and phrases printed in bold type:—
- (a) Every one beheld the adventures as brave, innocent men going to a dreadful execution, as rushing upon certain death: and the vast multitude caught the fire of devotion, and joined aloud in the prayers for success. The relations, friends, and acquaintances of the voyagers wept; all were affected; the sigh was general. Gama himself shed some manly tears on parting with his friends; but he hurried over the tender scene and hastened aboard with all the alacrity of hope. Immediately he gave his sails to the wind; and so much affected were the many thousands who beheld his departure, that they remained immoveable on the shore till the fleet under full sail vanished from their sight.

To what occasion does the above refer? What were the dangers that called forth so much emotion? To what extent were the fears of the people realised? Classify the genitive cases that occur in this extract. Parse immoveable.

(b) As these tracts (at least his portion of them) were all on one side, he entertained no doubt of their infallibility, and, being noisy and disputatious, was sure to silence his opponents; and he became, in consequence of it, intolerable arrogant and conceited. He was not, however, indebted solely to his knowledge of the subject for his triumph; he was possessed of "Fenning's Dictionary," and he made a most singular use of it. His custom was to fix on any word in common use, and then to get by heart the synonym or periphrasis by which it was explained in the book; this he constantly substituted for the simple term, and as his opponents were commonly ignorant of his meaning, his victory was complete.

What man is thus described and by whom? What distinction do you draw between arrogance and conceit? Taking triumph and dictionary as simple terms substitute for each a synonym and periphrasis. In what other sense or senses could on one side be used? Parse conceited.

To wrong the dead, to wrong myself, and you,
Than I will wrong such honourable men.
But here's a parchment, with the seal of Casar,
I found it in his closet, 'tis his will:
Let but the commons hear this testament,
(Which, pardon me, I do not mean to read,)
And they would go and kiss dead Casar's wounds,
And dip their napkins in his sacred blood;
Yea, beg a hair of him for memory,
And, dying mention it within their wills,
Bequeathing it, as a rich legacy,
Into their issue.

Into whose mouth are these words put? To whom does them' refer? How would be wrong, (1) the dead, (2) himself and (3) the people? Why does the speaker express un willingness to read the will? In what sense is Casar's blood described as sacred? What is the force of but?

- 2. Explain fully, but in simple language, the following:—
- (a) Every office of natural friendship seemed to promise a lasting harmony.
  - (b) Spots made famous by the sword and pen Till each one is a shrine.
- (c) There is a great difference between what is proper for a letter and what for a history.
  - (d) Alas for love! if thou wer't all And nought beyond, O Earth.
- (c) Many provinces redeemed their harvest by the payment of an annual ransom.
  - (f) The only way to answer a fool, is to answer nothing.
    - (g) Freeze, freeze, thou bitter sky,

Thou dost not bite so nigh As benefits forgot.

- (h) The power of the prætor was as a reed before the wind.
  - (i) Error wounded writhes in pain And dies among his worshippers.
- 3. Explain carefully the following phrases:—(a) the narrowing lust of gold, (b) to feel comfort in numbers, (c) to throw oneself on the laws, (d) oak leviathans, (e) to contain in a nutshell, (f) to lisp in numbers, (g) a Peruvian mine, (h) to have interests at stake, (i) to compound a matter.
- 4. Give the meaning of the words below and write one short sentence to illustrates the use of each:—(1) capricious, (2) frescoes, (3) conventional, (4) veneer, (5) apprentice, (6) subservient and (7) periodically.
- 5. What is meant by 'antithetical sentences'? In the following passage explain the words and phrases printed in bold type and arrange in pairs the single words placed in antithesis:—

It was the boast of Augustus, that he found Rome of brick, and left it of marble. But much nobler will be our Sovereign's boast, that he found law dear, and left it cheap; found it a scaled book, and left it an open letter; found it the partimony of the rich, and left it the inheritance of the poor; found it the two edged sword of craft and oppression, and left it the staff of honesty and the shield of innocence.

6. Passages from books not prescribed—

Re-write the following passages in your own words, so as to make their full meaning perfectly clear:—

(a) The perfectly educated will be Jack-of-all trades and master of one. "Master of one." Because there is no training in a smattering easily got by an active mind. "Jack of all trades." Because no man can work hard all day; and there is infinite pleasure and profit in picking up everything worth having. "Master of one." Because in the infinity of subjects, the wilderness, the jungle of rival ignorances, no strong, calm, great character can gain its strength excepting by

being pressed to the atmost limit of its power by the fierce demand for perfection that very great subject makes on him who gets far enough to know what trying to be perfect means. Every good runner knows this fierce demand of the last ten or twenty yards of a race. "Jack of all." Because the active brain cannot be on strain always, and yet being active, will be occupied. E. Thring.

(b) How happy is he born and taught That serveth not another's will; Whose armour is his honest thought And simple truth his utmost skill!

Who God doth late and early pray
More of his grace than gifts to lend;
And entertains the harmless day
With a well-chosen book or friend;
This man is freed from servile bands
Of hope to rise, or fear to fall;
Lord of himself though not of lands;
And having nothing, yet hath all. Sir II. Wotten.

#### ENGLISH.—SECOND PAPER.

T. R. Read, Esq., B.A. ... ... ... ... ... ... Examiners. BABU SARAT CHADRA MUKERJEE, M.A. ... ... ... ... ...

- I. What hid'st thou in thy treasure caves and cells,
  Thou hollow-sounding and mysterious main?—
  Pale glistening pearls and rainbow-coloured shells,
  Bright things which gleam unrecked of, and in vain.
  Keep, keep thy riches, melancholy sea!
  We ask not such from thee.
- (1) Parse the nouns in the above stanza. Name the pronouns.
  - (2) Scan the last two lines.
- II. (1) Distinguish between the weak and the strong conjugation of verbs.

(2) To which conjugation does each of the following verbs

belong: beat, fly, hurt, stop, work? Conjugate each of these verbs. Write sentences introducing the past participle of each.

- III. (1) Add to each of the following words the prefix that reverses the meaning: sense, truth, honour, patience. Give another example of a similar use of each of the same prefixes.
- (2) Give words, not formed by prefixes, or suffixes, having a contrary meaning to the following: near, praise, fertile, ancient.
- (3) State what prepositions are used with the following words: requisite, subversive, inconsistent, amenable. Write four sentences in illustration.

IV. Correct the following sentences and give your reasons for the changes you make:—

(a) He asked that when he was to come to work.

(b) No sooner I came in I went out again.

(c) We heard of him having met with an accident.

(d) They persisted to do what they knew to be wrong.

V. Give the meanings of—(i) As good as his word. (ii) Penny wise and pound foolish. (iii) A storm in a tea-cup. (iv) The observed of all observers. (v) Wolve in sheep's clothing. (vi) Old heads on young shoulders. (vii) To pay a man back in his own coin. (viii) To turn a person round one's little finger.

VI. Construct three complex sentences containing as their subordinate clause the words where the accident happened. In the first sentence the subordinate clause is to be a noun clause, in the second an adjective clause, and in the third an adverbial clause.

VII. Analyse in tabular form the following passage:—

I am always very well pleased with a country Sunday, and think, if keeping holy the seventh day were only a human institution, it would be the best method that could have been thought of for the polishing and civilising of mankind.

Parse fully the italicised words.

VIII. (a) Write in the third person the following speech, taking care to make the meaning plain and commencing with Tommy said to Harry that—

I shall not be long without you; to your example I owe most of the little good that I can boast; you have taught me how much better it is to be useful than rich or fine—how much more amiable to be good than to be great. Should I be ever tempted to relapse, even for an instant, into any of my former habits, I will return hither for instruction and I hope you will again receive me.

(b) Deduce from the following report the words used by

the original speaker.

Did they think that statue of ancient art was but a lifeless marble? Let them animate it with their breath and instantly it would live and glow. Greek literature, if it served them with nothing else, should excite their curiosity as the picture of a wondrons state of civilisation, which in its peculiar phases, the world could never see again, and yet from which every succeeding state of civilisation had borrowed its liveliest touches.

#### ENGLISH.—THIRD PAPER.

C. Dodd, Esq. ... } Examiners. E. A. Murphy, Esq., B. A.

Translate from Urdn into English:—

کشہیر هندوستان کی مغربی و شہائی سرحدھے۔کشہیرہ)
کی آب و هوا اور زمین کی جتنی تعریف کی جاوے سب کم ھے۔
اس کر فی زمین پر اسکے برابر کوئی ملک نہیں ھے۔گویا که
خالق نے سرشت کی عہدگیان اور کل عجائبات کو یہاں اکتھا
کرکے رکھدیا ھے۔ یہ ملک چاروں طرف کو ا هہائیا سے گھرا
هوا ھے۔ اور اسکے بیچ میں ایکسو میل سے زائد لانبان میں
اور ساتہ میل چوران میں ایک مسطح میدان ھے۔کسی
زماند میں یہ پورا میدان پانی میں توبا ھوا تھا۔میوہ جات
کے سایہ دار درخت یہاں اس کثرت سے هیں کہ تہام ملک باغ

معلوم هو تاھے۔جَہاں بارهون مہينے بہار كا موسم رهتا ہے كوئي ایسی جگہ نہیں ہے جو سبزی سے خالی ہو۔ اور رنگ برنگ کے پھول اوسمیں نه پھواي هوں - سیب اور ناشپاتي اس کثرت سے هوتے هیں که جنگل کا جنگل پڑا هے۔ برسات یہاں بہت کم هوتي هے - جاروں ميں بري سردي هوتي هے - اور برت خوب پرتی ھے - باقی آتہ یا نو سہینے بہار رھتی ھے نه گرمي نه جَارًا-درياے جَهيلم پوربسے پچهم كو بہتي هے-نه بهت چوری نه بهت تنگ گهري بخوبي که جس مين ناؤ اچھي طرح چل سکے - برسات کے کم هونے کي وجه سے يہ دريا كُهِنَّتًا بِرَهَمَّا بِهِي نَهِينِ هِي نَه اسكا پاني كُدلًا هُوتًا هِي - دريًا کے دونوں طرف میولاجات کے سایددار قرخت بہت خوبصورت معلوم هوتے هيں جنكي دالياں پاني ميں ايسي جهكي رهتي هيں كُه نَاؤُ پر بيتهے هوے سيوے تورتے كهاتے چلے جآئيتے \*

مهاراني لكمهشمي بائي كي سواني عهري كو اچهي طرح (6) سمجهنے کے المے پہلے جهانسی کے احوال قدیم کو جاننا ضروری

یہ شہو بوندیلکھنت میں واقع ہے۔ پہلے یہ اورچہاکے راجه بیرسنگہ دیو کے ماتحت تھا۔جب شاهنشاہ دهلی اکبر بادشاہ کے وزیر نامی ابوالفضل کو بیرسنگہ نے قتل کر تاالا تب بادشاء نے آئیے بیتے سلیم کو اوسکے مقابلہ پر بھیجا اور بیرسنگہ کے میدان جنگ سے بھاگ جانے پر بوندیلکھنڈ کی سلطنت بادشاهان مغلیه کے هاتی اگی - جب بہادر شاہ دهلی کے تخت پر بیتھے تب اونہوں نے چھترسالسنگہ کو جھانسي کی ریاست جاگیر کے طور پردیدی - راجه چهترسال کی قسمت

کے ستارے کو چمکتا ہوا دیکھکر بہت سے لوگونسے نوہا گیا اور صوبدار مالوہ اور نواب الفآباد نے بار بار اونکے راج پر چرهائي کي - چهترسال اسوقت مين بوره اور ضعيف هونيکي

وجه سے دشہنوں کا مقابلہ کرنے کے لائق نہیں رہے تھے۔ اِسلگے

انهوں نے مرهتوں کے سردار باجی راؤ پیشوا کے هاں پناہ لی ۔ چهترسال کے حال پر مہربانی کرکے پیشوا نے مسلمانوں کے سرداروں کا مقابلہ کیا ارر اونپر فتم پاکر راجہ چهترسال کو ارنکے راج پر بتھایا ۔ احسانہ ندی میں چهترسال نے تیں کرور کی آمدنی کا ملک باجی راؤ کو دیدیا ۔ اسی ریاست میں بیس لاکہ کی آمدنی کا ملک جهانسی بهی شامل تھا۔ پیشوا نے جهانسی کی صوبداری پررگھناتہ هری نولکر کوجو ایک نامی مرهتا سردار نها مقرر کیا ۔ وهی سردار مہارانی ایک نامی مرهتا سردار نها مقرر کیا ۔ وهی سردار مہارانی لکھشمی بائی کے شوهر کے خاندان کا پہلا آدمی هے \*

Translate from Hindi into English:-

(a) काष्ट्रवीर हिन्हुस्तान के उत्तर पश्चिम की मीना है। बाइमीर के जल वायु तया यहां की पृथ्वी की जितनी प्रशंसा की जाय जब कम है। इस भूसगड़ल में इनके वराबरी का के।ई दूसरा देश नहीं है। मानी विधाता ने स्रष्टिकी जितनी अद्भुत चातें और छन्दरता है सब का नसूना यहां इक्ट्रा कर रक्ष दिया है। यह देश चारों स्रोर हिमालय से घिरा है छौर बीच में इमके १०० मील के ऊपर लम्बाई में श्रीर ६० मील चीड़ाई में मगगर नेदान है। किसी समय यह सम्पूर्ण सैटान पानी में हुत्रा हुन्ना घा। छायादार सेवों के पेड़ इस बहुतान ते हैं कि समग्र देश का देश वाग सालून होता है। जहां बारहों महीने बमन्त ऋतु निवाश करता है। कीई ऐमा स्थान नहीं है जा हरित वृशी से खाली हो छोर रंग वरङ्ग के फूल उम में न फूले हों। सेव श्रीर नाशपाती इम बहुतात से होता है कि जंगल का जंगल पड़ा है। वर्तात यहां वहुत कम होती है। जाड़ों में बड़ी संदीं होती है और वर्फ सूत्र पड़ती 🕏 ।

बाकी द या ए महीने बसन्त रहता है न गर्मी न जाड़ा।
भोलम नदी पूरब से पश्चिम की बहती चली गई है। न
बहुत चौड़ी न बहुत सकेती। गहरी प्रच्छी कि जिस में
नाव प्रच्छी तरह से चल सके। बर्मात यहां कम होने से
यह नदी घटती बढ़ती भी नहीं न पानी इसका गंदला
होता है। नदी के दोनों फ्रोर छायादार मेवे के पेड़ बड़ी
शोभा देते हैं। जिनकी डालियां पानी में ऐसी मुकी रहती
हैं कि नाव पर बेठे मेवे तोड़ते खाते चले जाइये।

(b) महारानी लक्ष्मी बाई की जीवन घटना को अच्छी तरह से समझने के लिये पहिले कांसी का कुछ पूर्व दताना जानना बहुत जरूर है। यह नगर बुन्देलखण्ड के अन्तर्गत है। यह पहिले ओर्छा के राजा बीरसिंह देव के आधीन या। जब दिल्लीपति श्रकबर शाह के नामी संत्री श्रबुलफ़जल की बीरसिंह ने सार डाला तब बादगाह ने प्रपने लड़के शलीम के। युद्ध करने के लिये भेजा श्रीर बीरसिंह के मैदान से भागने पर बुन्देलखरड राज्य सुग़ल बादशाहों के हाथ आया। जब बहादुर शाह दिल्ली के राज गद्दी पर बैठे तब उन्हों ने छत्रसालिसिंह की कांशी की रियासत जागीर के तीर पर देदी। राजा छत्रसाल के सीभाग्य के सितारे के। चमकता देख कर बहुत से लोगों से न रहा गया ख्रीर मालवा के मूबेदार श्रीर इलाहाबाद के नवाब बार बार उनके राज पर चढ़ाई करने लगे। छत्रसाल इस वक्त पर बूढ़े और पराक्रम हीन होने के कारण शत्रश्रों के। पराजय करने में असमर्थ होकर महाराष्ट्राधिपति बाजीराव पेशवा के शरणागत हुए। छत्रसाल की दशा पर दया करके पेशवा ने मुसलमान सरदारों का सामना किया और उनको जीत

कर राजा छत्रसाल के। राज्य पर विटाया। छत्रसाल ने कृतचा होकर तीन करोड़ की छामदनी वाली रियासत वाजीराव के। दिया इसी रियासत में बीस लाख की आय का कांसीखण्ड शामिल था। पेशवा ने कांसी की मृबेदारी पर रघुनाथ हरिनवलकर एक नामी मरहठे सदार के। नियत किया। वही सदार महारानी लक्ती वाई के पति के यंश का आदि पुरुष कहा जायगा।।

#### · MATHEMATICS.

#### ARITHMETIC AND ALGEBRA.

BABU UMESH CHANDER GHOSH, M.A. ... } Examiners. C. H. Dixon, Esq., M.A. ... ... }

1. Simplify:-

(a) 
$$5-5 \times \frac{2+1! \cdot (2+1!)}{1! \cdot 2 + 2 \cdot (2+1!)}$$

(b) 
$$\frac{.125 \times (.175 \text{ of } .285714)}{.00025}$$

- 2. (a) Express  $\frac{3}{8}$  of 7s. 6d.+1.25 of 5s.— $5\dot{4}\dot{5}$  of 9s. 2d. as a decimal fraction of £ 10.
  - (b) Extract the square root of 40000:400001.
  - 3. What is an 'aliquot' part of a quantity?

Find, by practice, the time of building a wall 27 yards long; 1 yard thick and 6 feet high, of which one cubic yard is built in 3 hours 18 minutes and 45 seconds.

- 4. How far shall I ride with a friend who leaves Allahabad at 9 A.M., and will drive to Karchana which is 10 miles from Allahabad in one hour, that I may, by walking back at the rate of 4 miles an hour reach home at 11-30 A.M.?
- 5. A owes B Rs. 1,435 due at the end of 4 months, Rs. 630 due at the end of 8 months, Rs. 860, due at the end of a year. B wants his money forth with. What ought A to pay him reckoning interest at 7½ per cent?

6. (a) Factorise: -
(i) 
$$x^{12} - a^{12}$$
,
(ii)  $x^4 + 2x^2 + 9$ ,

(iii)  $8x^2 + 6x - 27$ . (b) Find the H. C. F. of  $x^{18} - 1$  and  $x^{19} - 1$ .

7. Simplify: 
$$\frac{a^3}{(a-b)(a-c)} + \frac{b^3}{(b-a)(b-c)} + \frac{c^3}{(c-a)(c-b)}$$

8. Solve the following equations:-

$$(a)\frac{7x+1}{x-1} = \frac{35}{9} \left(\frac{x+4}{x+2}\right) + \frac{28}{9}.$$

$$(b)\frac{a_1}{x} + \frac{b_1}{y} = c_1$$

$$\frac{a_2}{x} + \frac{b_2}{y} = c_2.$$

9. If a:b::c:d and p:q::r:s, prove that  $ap+cr:bq+ds::\sqrt{acpr:\sqrt{bdqs}}$ .

10. Two towns X and Y, on a railway, are 46 miles apart. Coals at X cost 18s. per ton and at Y 16s. per ton; they cost 2 pence per ton per mile to carry on the line. Find the distance from X, of the place at which it is immaterial to the consumer whether he buys coals from X or from Y.

#### GEOMETRY AND MENSURATION.

Pt. Sudhakar Dube, W. Jesse, Esq., M.A., ... } Examiners.

1. (a) Bisect a given rectilineal angle:

(b) Shew that the vertex of the equilateral triangle described in the figure of 1. 9 must lie between the two straight lines which make the given rectilineal angle.

2. From a given point it is required to draw to two parallel straight.

lines, two equal straight lines at right angles to each other.

3. (a) If a straight line be divided into any two parts, four times the rectangle contained by the whole line and one of the parts, together with the square on the other part, is equal to the square on the straight line which is made up of the whole and that part.

(b) Prove that four times the rectangle contained by any two unequal straight lines is equal to the difference of the squares on their sum and on their difference.

4. Describe a segment of a circle, containing an angle equal to a given rectilineal angle, on a given straight line.

5. Construct a triangle, having given the base, the vertical angle, and the point in the base on which the perpendicular falls.

6. Inscribe a regular hexagon in a given circle.

7. Describe a circle which shall pass through two give points on the same side of a given straight line, and touch that straight line.

8. (a) What is meant by area?

(b) The area of an acute-angled triangle is 336 sq. ft. and the

sides are 26 feet and 30 feet; find the base.

9. A circle of 120 feet radius is divided into three parts by two concentric circles; find the radii of these circles, so that the three parts may be of equal area.

10. Plan a field from the following notes and find its area in acres, roods, and pole:—

٠.	Links.	
0 K 20	A 409 60 30 20	0 H 10 G
Turn	C to the	left
Tnın	C 169 30 B to the	0 20 F 0 left
From	B 510 160 50 0 A	0 30 E 10 D 0 go East

#### ARABIC.—First Paper.

MAULVI SYED AMJAD ALI, M.A., Examiner,

- 1. Translate into English and explain the grammatical principles referred to in the following giving examples of each:—
- جاء نحوي علي باب نحوي فدن بابه فقال س انت (a) فقال الزادر احمد فاجاب صاحب الدار انصرت فقال احمد لا ينصرت فاجاب اذا كان نكرة ينصرت «

سُمُّلُ الكسامِّي عن من سهاءَن سجوه السهوهل يسجد (b) مرة اخرى قال لا فقيل و لم قال لان الهصغر لا يصغر \*

2. Re-write the following with vowel marks and translate into English:—

فلما سمع امير المومنين هزا الشعر طرب طربا عظيماً فقالت له اخته يا اخي من حكم على نفسه بشيء ازمه القيام به والعمل بقوله و انت حكمت على نفسك بهذا الحكم - ثم قالت يا نعمة قف علي قدميك و كذا قفي انت يا نعم - فوقفا فقالت اخت الخليفة يا امير المومنين ان هذه الواقفة هم نعم المسروقة سرقها الححاج بن يوسف الثقفي و ارسلما لك وكذب في ما ادعاء في كتابه من انه اشتراها بعشرة آلاف دينار وهذا الواقف هو نعمة بن الربيح سيدها - وانا استلك بحرمة وهذا الواقف هو نعمة بن الربيح سيدها - وانا استلك بحرمة أباعمك الطاهرين وبحوزة والعقيل والعباس ان تعفو عنهما

فانهما في قبضتك و قد اكلا من طعامك و شربًا من شرابك وانه الشفيعة فيهما المسترهبة دمهما \*
خليفه How was the ? عباس and ? عباس 3. Who were

وتصفحعن جريمتهماو تهبهما لبعفهما لتغنم اجرهماو ثوابهها

connected to them?

4. Translate into English and name the author of the extract:—

الأخير في التجارب « والزكو في العواقب فلي التجارب » والزكو في العواقب فلي سبالة يحس بالقياس المناه عمرو الناس لو كان كل تاجر « يربح في المتاجر لا تجر الناس معا « او خاب كل من سعي لم يسع قط احد « ولم يكن يجتهد لو كان كل من ركب « وسار في البحر عطب لم يركب البحر احد « و لا انتحاه و قصد او سلموا جميعا « و لم يروا فظيعا او سلموا جميعا » و لم يروا فظيعا

لا زد حموا عليه و با در وا اليه قل الله قل الله قلي تجربه قله تصم مع ذي الغلبه ال الليالي متعبه هم حب البقاء معطبه

5. Describe the etymological changes that the following have undergone; انتتعلى الم يكن رام يدح رخاب رسعى راتجر رليس زال رادحورا رام يروا.

قل رسعي خاب رقياس رساموا رركب

7. Translate into English and mention the allusion referred to in the following:—

انها الدنيا فناء ليس في الدنيا ثبوت انها الدنيا كبيت نسجته العنكبوت و لقد يكفيك منها ايها الطالب قوت و لعمري عن قليل كل من فيها يهوت

#### ARABIC.—SECOND PAPER.

MAULVI MOHAMMAD YUSUF JAFRI ... Examiner.

N. B.—Give vowel marks to every Arabic word you, write.

· 1. Translate into English:—

الشباب شعبة المجنون - الدنيا مرزعة الاخرة - القناعة مفتاح الراحة - العاقل تكفيه الاشارة - احسن كها احسن الله اليك - زرنى غبا تزده حبا - من عرف نفسه فقد عرف ربه من لا يشكر الناس لا يشكر الله - اطلب العلم من المهد الي اللحد - عزمن قنع و ذل من طهح - الدنيا جيفة و طالبها كلاب - اثنان لا يشبعان طالب علم وطالب مال - لاتستصغر عدوك وان ضعف - الصدق ينجي والكذب يهلك - من كثر عياله كثروباله ان قل مال المهرء قل صديقه - اذا اراد الله شيئاهيا اسبابه ايس الامور بصاحب من لم ينظرفي العواقب - من يفرعن بلاء يسير ربها يقع في بلاء كبير - قل لهن يذكر الله تورعا بلاء يسير ربها يقع في بلاء كبير - قل لهن يذكر الله تورعا

ازكرربك تضرعا-س اراد ان يؤيد غناه فليكن قانعابها رزقه الله - علك ياكتساب الملم فان القلب الهيت يحي بالعلم - ان الضعيف قد يغلب علي القوي بكياسته والقوي يعجز عن الضعيف لحماقته - قلب الغافل في لسانه ولسان العاقل في جنانه فهذا يتكلم بعد ما يتفهم وذلك يتقول قبل ما يتعقلان تربة الاشرار اضرار بالابرار والكرم علي اللئام ظلم علي الكرام - كل من عليها فان ويبقي وجه ربك ذوالجلال ولااكرام \*

2. Translate into Arabic:

If you will disobey me I will beat you severely. When ever I went to her I saw her reading her book. His two brothers will start on their journey to-morrow. Yesterday Zaid gave me two dirhams to buy a cap for his son. Will you not go to school to-day? Is Khalid the person who has stolen your properly, or his father? What things do you find missing? Amir's elder brother died in a battle in the year one thousand two hundred and fifty-eight A. H. Did you not say to him so and so? Yes. Have you sent the letter to your teacher? Yes. How did you cross the river? He is greater in wealth but less in wisdom than I. Bakr is the most learned of all his fellow citizens. Why do you say what you do not do? The teacher beat the boy by way of correction, and he ran to his father crying. I bought twelve oranges for three dirhams. I must finish my work before sunset. I sleep two hours daily at noon. Make ablutions before you pray. Never make promises that you cannot fulfil.

- عرفن and عرفن and عرفن and عرفن and عرفن used with an Aorist and a Preterite, and give examples.
- 4. Mention the governments of الله الله على and الله and الله examples.
- 5. Write the following nouns in all the three cases—the Nominative, the Accusative, and the Genitive:—مساورت عمار عمار عمارت مرسف مرسف مرسف مرسف مرسف مرسف

#### PERSIAN.—FIRST PAPER.

MAULVIE SYED ABBULLAH, SYED KALAN, Examiners.

1. Translate into English:-

قضارا نخستین کسے که در آمد گدای بود که همه عمر (۵) لقمه اندوخته و رقعه بر رقعه دوخته بود از کان دولت واعیان حضرت وصیت ملک را بجا آوردند و تسلیم مغاتیم قلاع و خزاین بدو کردند - مدتے ملک راند اندو کردند از مطاوعت او پیچیدند و ملوک دیار از هر طرف بمنازعت بر خاستند و بمقاومت لشکر آراستند - فی الجمله سپاه و لشکر بهم بر آمدند و برخی از اطراف بلاد از تصرف او بدر رفت - درویش ازین واقعه پریشان و خسته خاطر همی بود «

در دل چنان میگذشت و در خاطر چنان میگشت که (۵)
این نامه بزودی بآخر نه انجامد و خامه در طی مقاصد آن
حالیا از جنبش نیارامد اما چون آئینه طبع گوینده زنگ
ملالت بگرفت بصیقل صدق رغبت شنونده صقالت نپذیرفت
برینقدر اختصار رفت ..... امید بکارم اخلاق مالعطه کنندگان
آنکه چون بر خللی مطلح شوند بذیل عفو و اغهاض بپوشند
و در افشای هذیان اعتراض و اعهاز نکوشند

- عرا جرا and also in نضا را in را and also in مرا جرا and also in بنا يسر and يا يسر عبرا عبر الم
- (b) Explain the formation of the words گرینده جنبش-درریش and کنندگان
- (c) State the singular or plural, as the case may be, and the English meanings of دیار-منازعت-بالا-تصرف-خسته تقمه-رقعه ارکان درات امیان رصیت مناتیع قلاع خزائن آخر صیقل ارکان درات امیان رصیت مناتیع مکارم اخلاق -دیال اعتراض

3. Render into English the following couplets. What is a and why is it so called?

زه یوسف که چندین بلای یه و بند پخو حکمش روان گشت و قدر شربلند (۵)
گفت ه عفر کرد آل یعقوب را په که معنے بود صورت خوب را
بکردار بد شان مقید فکود په بضاعات مزجات شان رد نکرد
زلطفت همی چشم داریم نیز په برین بے بضاعت ببخش ای عزیز
دلی کز دلدری ناشان باشد په زهرشادی و غم آزاد باشد (۵)
غم دیگر ناگیر دامن او په نگرد د شادی پیرامن او
اگر گردد جهان دریای اندوه په بر آرد مو جهای غصه چون کوه
ازان نم دامن او تر نگردد په زاندوهی که دارد بر نگردد
و گر جشن طرب سازد زمانه په دهد او عیشهای جاودانه
فروپیچد ازان جشن طرب روی په نخواهد کم غم خود یکسر موی

4. (a) Narrate briefly the story of يرحف in good Persian Prose, inserting couplets and hemistiches suitable to the

occasion from quistion 3.

مضاف to the final letter of کسره to the final letter of کسره in Persian. What are the special rules regarding the اضافت مترايي Pefine اضافت مترايي and give an example.

5. Translate into English the following lines, with notes, very brief but to the point, on ترے – شاقعی حالے – الله در قاتل نقش What is the root of عبتیں – طاسک – حمائل – چشم زخم – تعوین طرفان singular or plural?

هرنکتهٔ که گفتم در وصف آن شهائل (۵)
هر کس شنید و گفتا الله در قائل
حلام بر سر دار این نکته خوش سراید
از شافعی میرسید امثال این مسائل
از آب دیده صدره طوفان نوح دیدم
از آب دیده هرگز نقشت نگشت زائل
ای دوست دست حافظ تعوید چشمز خهست

- از هرز البهر داري نهي بايد تاخت (b) بانيک و بد زمانه مي بايد ساخت از طاسک چرخ و کمپتيس تقدير هر نقش که پيدا شود آن بايد باخت
- 6. Analyse according to the Persian System:
  الف را واو ميخوانند صائب
  زبان پارسي ازبس زبون است
- 7. Distinguish between a tabi and a die.

#### PERSIAN.—SECOND PAPER.

H. R. WILLIAMS, ESQ., ... Examiners.

1. Translate into English:-

در اخبار آمده که پسر امیربلخ روزے بتماشا بیرون آمده بود-گزرش بردیوار پستے افتاہ نگاہ کرہ پیرے دید زنارے برمیان بسته وبیلی در دست گرفته درخت می نشاند-امیر زاد عفت ای پیر درختے که میوه آن نخواهی خورد چراسی نشاني-پيرگفت ديگران سي كاشتند ما ميخور يم تا ديگران بخورند وشاید که مانیز بخوریم - امیرزاده جوانے نور سیده ومغرور بود بطلاق سوگذه خورد كه تواز ميوه اين باغ نخواهي خورد- این بنفت وبندشت - پیر پرسید که این چه کس بود - گفتند پسر امير بلخ - بعد از مدنے اميرزاده بتماشا سوار شدى كوكبة خود ميراند بباغے رسيد بغايت داكشا وروضة ديد بسيار خوش بود - آمير زاده را آن باغ بسيار خوش آمد -عنان باز کشید و از مرکب پیاه شدو در باغ در آمد- پیرے دید زنار بند که دران باغ میگشت چون امیر زاده را دید نشناخت واميرزاده نيز آورا ندانست پيرطبقے ازميوها \_ چيد، واطيف پيش آورد اسير زاده آغاز خوردن كرد-در اثنائي ميوه خورون قدرے بهست پيرداد كه توهم بخور وبا

ما اتفاق نها \_\_ پیر آن میوه را به یکن از ملازمان او که
ایستاده بودند داد و گفت مرا ازین میوه نشاید خوردن امیرزاده پرسید که چرا - گفت بجهت آنکه وقتے که من این
درختان را می نشاندم پسر امیر بلخ بدینجا رسید ومرا در
نشاندن درخت سرزنش کرد که عهر \_ گذرانیده وبلب گور رسیده
چه املے (امید) دور و دراز داری که درین سن درخت میکاری
که بعد از چند سال دیگر میوهٔ آن خواهد رسید - من سخن
اورا جواب گفتم و او بطلاق سوگند خورد که تو از میوهٔ این
باغ نخوری - من از حرمت آنکه شاید زنده و کد خدا باشد
میوهٔ این باغ نهی خورم تا طلاق واقع نشود و من از عهدهٔ
دیانت بیرون آمده باشم \*

#### 2. Translate into Persian:

Egypt, though bordering on Libya, does not abound in wild beasts: but all that they have are amounted sacred, as well those that are domesticated as those that are not. But if I should give the reasons why they are consecrated, I must descend in my history to religious matters, which I avoid relating as much as I can; and such as I have touched upon in the course of my narrative, I have mentioned from necessity. They have the following custom relating to animals. Superintendents, consisting both of men and women, are appointed to feed every kind separately; and the son succeeds the father in this office. All the inhabitants of the cities perform their vows in the following manner: Having made a vow to the god to whom the animal belongs, they shave either the whole heads of their children, or a half, or a third part of the head, and then weigh the hair in a scale against silver, and whatever the weight may be, they give to the superintendent of the animals; and the superintendent in return cuts up some fish, and gives it as food to the animals. Should any one kill one of these beasts, if wilfully, death is the punishment; if by accident, he pays such fine as the priests choose to impose.

#### SANSKRIT.—FIRST PAPER.

Pt. Moti Lal Bhattacharya, M.A., Examiner.

1. Translate the following passage into English:—
अतीतलाभस्य सर्वणार्थं भविष्यलाभस्य च सङ्गमार्थम् ।
आपत्प्रपन्नस्य च मोजणार्थं यन्मन्त्र्यतेऽसी परमी हि मन्त्रः॥

तच्छुत्वा वायस आह मी: यद्येवं तत्कियतां महुमः।
एप चित्राङ्गोऽस्य मार्गे गत्वा किञ्चित्यत्वलमासाद्य तस्य
तीरे निश्चेतनी भूत्वा पततु । अहमप्यस्य गिरमि ममामस्य
मन्देश्वज्चपहारैः शिर उत्तेखयामि येनासी दुष्टलुट्यकोऽमुममृतं मत्वा मम चञ्चपहरणप्रत्ययेन मन्यरकं मृनी जिप्त्वा
मृगार्थ परिधाविष्यति। अत्रान्तरे त्वया दर्भमयानि पागानि
खण्डनीयानि येनासी मन्यरको द्रततरं पत्वलं प्रविणति।

(a) Name and expound the Samasas in the underlined words.

(b) Explain and give rules for the Sandhis in:-

तच्छुत्वा, एप चित्राङ्गः, मन्देश्वञ्चप्रहारेः, यद्येवं and वायस आह ।

- (c) Give the प्रकृति and प्रत्यय of मत्या and तमाहस्य, and conjugate their roots in the first preterite (ज्ञङ्) third person in all the numbers.
  - II. Explain in Sanskrit:-
  - अधोधः पश्यतः कस्य महिमा नोपजायते । उपर्य्युपरि पश्यन्तः सर्वे एव दरिद्रति ॥
  - परोत्ते कार्य्यहन्तारं प्रत्यते प्रियवादिनम् । वर्ज्जयेत्तादृशं नित्रं विषक्तुम्भं पयोमुखम् ।
  - अन चायं न परोलोकस्तस्य चेव परन्तप । श्रमानिता नित्यमेव यस्यैते गुरवस्त्रयः ॥

(a) Decline the eases in महिना, चार्ट्यहन्तारं and मित्रं in all the singular case-endings.

(b) Name the speaker and the person spoken to, in the

extract (3). Who are referred to by "गृहयस्त्रयः?"

(c) Give the form of the root in उपमायत in the second preterite (सिंह) second person singular.

#### III. Paraphrase the following:-

- 1. प्रत्पानामपि वस्तूनां संहति: काय्येशिका । तृशीर्गुशात्वमापनैर्वध्यन्ते मत्तद्निनः ॥
- कार्यः सिनिहितापायः सम्यदः पद्मापदास्। समागमाः सापगमाः सर्वेषामेव देहिनास्।।
- उ. न स्वल्पस्य कृते भूरि नाश्येन्मतिभानरः। एतदेव हि पाण्डित्यं यत्स्वल्पाद् भूरिरज्ञगस्।।
- (a) Change the voice of the second half of extract (1).

(b) Give the third preterite (লুক্) form of the root in স্থাই in the third person singular.

(c) Parse क्रते in extract (3.)

IV. Transtale in English or Hindi:-

अत्यन्त्रेनाविषद्धेन सुवृत्तेनातिचारुणा । अन्तर्भिनेन सम्प्राप्तं मौक्तिकेनापि बन्धनस् ॥

Which words in the above extract have two meanings? Give their different meanings in Sanskrit.

V. Reproduce the story of सोमश्रम्भेषिता in English.

VI. Give exact synonyms of:—कापुरुषाः, आगदः, आअद्धेयं, भूतिं, नदीशः, कृत्रिमं, मनस्विनः, व्यसनस्य and आसत्यसन्धम्।

VII. Correct the following and give reasons for your corrections:—

### हीनसेवा न कर्त्तव्यं कर्त्तव्यं महदाश्रयम् । पयोऽपि शौण्डिनीहस्ते वारुणीमिति कथ्यते ॥

Give the purport of the above extract after correction in English.

VIII. (a) Decline एतर् fully in all the genders.

(b) What Vibhaktis would you give to words in connection with धिक, नंगः, सह, विना and स्वलम्? Illustrate their use by forming separate sentences.

#### SANSKRIT.—SECOND PAPER.

Pt. A. R. Bhattacharya, M. A., Eraminer.

I. Translate into Sanskrit:—

(a) Devadatta read the book in seven days,

(b) Knowledge is better than wealth and virtue is better than knowledge.

(c) I do not like your giving Dakshina to men who are

not learned.

(d) Better to roam with wild beasts than live in the com-

pany of fools.

- (e) In a certain village there lived a Brahmana called Yajnadatta. His wife distressed by poverty said to him every day: "Dost thou see that thy children are dying of hunger? Leave this place and seek elsewhere food for the little ones.
  - II. Translate into English:-
    - (a) उत्तमी नातिवक्तास्याद्धमी वहुभाषकः । न हि स्वरो ध्वनिस्तादृग यादृक् कांस्ये प्रजापते ॥
    - (b) यत्र नार्य्यस्तु पूज्यन्ते रमन्ते तत्र देवताः । यत्रैतास्तु न पूज्यन्ते सर्वास्तत्राफलाः कियाः॥
  - (e) सन्तुष्टी भार्य्यमा भर्ता भन्नां भार्या तथेव च। यस्मिनेव कुले नित्यं नल्यामां तन वे भूवन् ॥
  - (d) मृगा मृगैः सङ्गमनुद्रजन्ति गावश्व गोभिस्तुरगाम्तुरङ्गैः। सूर्वाश्व सूर्वैः सुधियः सुधीभिः समानशीलव्यसनेषु सङ्यम्॥
- (e) पुरा किल गाधिनांन कशिद्राजा वभूव । तस्य पुत्रो विश्वामित्रो नामासील् । पितुः पश्चाद्विश्वामित्रो राज्येश्म्यिष्यत । श्रथेकदा विश्वामित्रः सेनामादाय सृग-यायै वनं गतः । तत्र स वशिष्टस्यात्रसं विलोक्याचिन्तयत्।

प्रहो रमणीयोऽयमात्रमः । तद्त्र बाञ्चित् कालं विश्रम्य विश्वपृष्ठिं दूष्ट्वा संभाष्य च इतोऽन्यत्र गच्छासीति । यदा विश्वष्टी राजानमभ्यागंतमपश्यत्तद् तं स बहुमानमाह । महात्मन् खागतं ते । श्रत्रासन उपविश्वतामिति । ततः शिष्येरानीतानि फलानि सूलानि च विश्वो विश्वामिता-योपाहरत् । प्रजायाश्च कुशलगण्च्छत् । विश्वामिता-योपाहरत् । प्रजायाश्च कुशलगण्च्छत् । विश्वामिता-प्रतिगृद्धा विश्वासित्रोऽपि तं शिष्याणां पेनूनां च कुशलं प्रश्वेष्ट्यत् । सर्वत्र च कुशलं विद्यत इति विश्वहरतं प्रत्य-वदत् ॥

#### HISTORY.

W. C. Horst, Esq., H. Sharp, Esq., B. A, .... Examiners.

- 1. What families of kings have reigned in England since the battle of Hastings? What circumstances led to each change of dynasty?
  - 2. Write a short account of the reign either of Edward III. or James I.
- 3. What causes led to the War of the Spanish Succession? What battles were fought in it? Give the name and terms of the treaty by which it was brought to a close.
- 4. Describe the Parliament of Edward I. and state what is meant by the "Confirmation of Charters."
  - 5. Give an account of Asoka and his reign.
- 6. Name in chronological order the first eight Moglud Emperors, giving the contemporary British Sovereign. Mention the chief events in the reign of Akbar.
- 7. Describe the political state of India at the time of Lord Wellesley's appointment as Governor-General; and write a short account of his administration.
- 8. How and when did the British acquire Bombay, Mauritius, Sindh, Jamaica?
- 9. Write a short note on each of the following:—Sakuutala, "Lion of the Punjab," Dupleix, Blake, Petition of Rights, Anti-Corn-Law League, Domesday Book.
- 10. With what historical events are the following names connected?—Thaneswar, Buxar, Chilianwala, Plassey, Ruunimede, Lewes, Trafalgar, Balaklava.

#### GEOGRAPHY.

REVD. G.M. BULLOCH, ... Examiners. W. HARDIE, Esq., ...

1. Define the following terms: Steppes, Oasis, Gorge, Climate, Dew, Meridian, Gravitation.

2. What and where are the following: Amoor, Brindisi,

Corsica, Kaffraria, Ladoga, Oder, Shannon, Tasmania.

3. In what parts of the earth are the following products found:

Gold, Tin, Coal, Salt, Sugar-cane, Indigo, Rice, Cotton.

4. Draw a Map of Indian Ocean north of the Equator and between Africa and India; show the gulfs and bays connected with it, the islands, the capes, the mouths of rivers, and the principal towns on the coasts.

5. Mention in order the principal towns and mouths of rivers you would pass in following the coasts from Rangoon to Bombay.

6. Describe the different races of people inhabiting Asia.

7. Explain how Evaporation and Condensation are caused. Mention some of the principal results of these processes.

8. How do you prove the existence of the interior heat of the earth? What is the cause of the movements of the earth's crust?

9. How is it that if two persons set out from the same place and travel in exactly opposite directions when they meet on the other side of the globe they will differ by a day in their reckoning of time?

## GEOMETRICAL DRAWING.

#### G. T. SPARKE, Esq., Examiner.

1. Divide a line 6-3 inches long so that the parts may be to each other in the proportion of 3, 21, 11, 21.

2. Two straight lines intersect at an angle of 45, draw,

a circle of 11 inch radius, touching both lines.

3. Construct a right angled triangle with hypotenuss of  $2\frac{1}{2}$  inches and an acute angle of 30.

4. Describe a segment of a circle having a base of 275

inches and containing an angle of 1653.

5. From a point P outside a circle of 2 inches reding draw two lines containing an angle of 30° and tangent to the circle.

6. A scale to measure single feet is required for a map on which a distance of 300 yards is represented by 6 inches.

#### ELEMENTARY PHYSICS AND CHEMISTRY.

#### BABU G. N. CHAKRAVARTI, M.A., LL.B., Examiner.

1. Describe Bramah's Press. Upon what property of liquids does its action depend? In a Bramah's Press the area of the large piston is 300 times the area of the small piston; if a force equivalent to the weight of 20 lbs. is exerted on the small piston, find in tons the pressure produced by the large piston.

2. Describe the construction and use of a barometer. What is meant by "Torucellian vacuum." In the construction of a

barometer, why is mercury preferred to water.

3. Distinguish between "evaporation" and "ebullition." Describe an experiment to show that water can be boiled without the addition of heat, and explain clearly the principle on which it is possible to do so. Why does water boil at a lower temperature on the top of mountains than on the plains?

4. Mention as fully as you can what happens when a ray of white light passes thought a prism of glass. What is meant by

the "solar spectrum?"

5. What is the difference between "electrical conduction" and "electrical induction"; Describe some experiments to illustrate the latter. Give a description of the gold leaf electroscope, and explain the principle on which it works.

6. Devise experiments (1) to show that carbonic acid gas is largely present in the air we breathe out, and (2) to illustrate the

fact that plants inhale carbonic acid gas and exhale oxygen.

7. What is meant by "impurity of water?" Distinguish between "impurities in solution" and "impurities in suspension." A tumbler contains clear transparent *sherbet* (sugar dissolved in water). Is there any "impurity" in the water of the tumbler?

8, Mention clearly and accurately the three parts of a flame and prove by an experiment that the black or the inner cone is

the zone of no combustion.

9. How would you get nitrogen gas from the air? Name as many substances containing nitrogen as you are familiar with, Interpret fully the following chemical equation:—

 $KNO_3 + H_2 SO_4 = HNO_3 + KHSO.$ 

10. Describe the properties of copper and mention some of its important alloys. Explain what is meant by 'native copper' and 'copper ores.' How would you test a solution of copper sulphate?

#### BOOK-KEEPING.

B. D. Gordon, Esq., ... Examiner.

- 1. (a) Define Account. Distinguish between a Real and a Subsidiary Account. What three operations are necessary to obtain the Balance of an Account? What is meant by closing an Account? What questions does the Cash Book answer?
- (b) Work out and Balance the following Cash Account:—Balance for March, Rs. 794-4-0—April 2. Pay Black & Co. Rs. 70-6-9—April 3. Received from Day & Co., Rs. 120-7-8-April 5. Pay for Coal, Rs. 750-6-4—April 5. Carriage for ditto, Rs. 140-0—April 10. Paid for wood, Rs. 790-4-9—April 15, Sell Coal for Cash, Rs. 940—April 20. Sell Wood for cash, Rs. 750-4-3. Household Expenses, Rs. 450.
- II. Jany. 1. Balance at Bank, Rs. 5,920-8-6; other Ledger Balances—Bills Payable, Rs. 5,322-8-0; Bills Receivable Rs. 1,210-4-6; Cash, Rs. 330; Goods, Rs. 1,280.

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31 Accepted draft of C. Browne @ 1

- 1. Enter in the Cash Book all the Cash and Bank transactions.
  - 2. Carry all the Transactions through the Journal.
- 3. Post from the Journal into the Ledger inserting the folio reference in the proper columns of both Journal and Ledger.
- 4. Balance and close the Ledger, preparing a Trial Balance, and opening a Balance account. The goods on hand may be valued at Rs. 3,800. Set aside 10 per cent. of the net profits to cover possible future bad debts, showing the proceedings on the face of the Ledger.
  - 5. What have I gained or lost during the period?
- 6. Am I solvent or insolvent at the time of balancing? By how much?

#### POLITICAL ECONOMY.

J. G. Jennings, Esq., M. A. ... Examiner.

1. Define Wealth and Money, carefully distinguishing between them, with examples. Describe the Mercantile

system and explain errors.

2. Show that labour is indispensable to the production of wealth, and define the exact service rendered by labour to production, illustrating both parts of your answer by means of examples. Distinguish between productive and unproductive labour, giving examples.

3. Define capital; and enumerate its chief forms carefully distinguishing between them, with examples. Discuss whether capital in order to fulfil its functions must be con-

sumed.

4. What is meant by "effectual demand?" Explain the statement that "the price of commodities must be such as to equalise the demand with the supply." Show what care-is regulate the price of agricultural produce.

5. Explain Ricardo's theory of Rent. Discuss whether

rent is a part of the price of agricultural produce.

6. Of what elements are the Profits of Capital composed? Discuss whether the Rate of Interest is the same in all trade, in the same country and at the same time.

7. Explain the manner in which the supply of an ex-

ported commodity is equalised with the detacatel.

8. Explain the nature of Bills of Exchange, and the process of Bill Discounting.

# ENTRANCE AND SCHOOL FINAL-EXAMINATIONS, 1897, ENGLISH,—First Paper.

C. H. Linton, Esq., M. A. F. Sudmersen, Esq., M. A. J. C. Kempster, Esq.,

1. Give the meaning of the words and phrases in the following passages printed in large types:—

- (a) Arabia, in the opinion of naturalists, is the genuine d original country of the horse; the climate most propitious not indeed the size, but to the spirit and swiftness, of that generous animal. The orses of the Bedoweens are educated in the tents, among the nildren, with a tender familiarity, which trains them in the abits of gentleness and attachment. They are accustomed ally to walk and to gallop; their sensations are not blunted by the incessant abuse of the spur and the whip; their powers are reserved for the moments of light and pursuit: but no sooner do they seel the touch of the hand or stirrup, than they dart away with the swiftness of the wind; and if their friend be dismounted in the rapid career, they instantly stop till he has recovered his seat.
- (b) To one given to day-dreaming, and fond of losing himself in reveries, a sea voyage is full of subjects for meditation; but then they are the wonders of the deep and of the air, and rather tend to abstract the mind from world themes. I delighted to roll over the quarter-railing or climb to the maintop, of a calm day, and muse for hours together on the tranquil bosom of summer's sea; to gaze upon the piles of golden clouds just peering above the horizon, fancy them some fairy realms and people them with a creation of my own; to watch the gentle undulating billows, rolling their silver volumes, as if to die away on those happy shores.

What are 'the wonders of the deep and of the air,' and how would they tend to abstract the mind from wordly themes? What does the disjunctive conjunction but imply in 'but then they are the wonders of the deep and of the air?'

(c) Of Nelson and the North
Sing the glorious day's renown
When to battle fierce came forth
All the might of Denmark's crown,
And her arms along the deep proudly shone;
By each gun the lighted brand
In a bold determined hand,
And the Prince of all the land
Let them on.
Like Leviathans afloat
Lay their bulwarks on the brine;



- (vii) There is not in my opinion, anything more myius in Nature than this instinct in animals, which thus above reason, and falls infinitely short of it.
- (). Write brief answers to the following questions:-
- (i) What does Addison mean by the expression fillup the empty spaces of life? Mention one or two hods suggested by him for achieving this end.

(ii) Who was Cardinal Ximenes?

- (iii) Into what trouble had Antonio fallen; and how I Portia rescue him? Reproduce as far as you can, all that ortia says about the quality of Mercy.
- 4. Name the authors of the following extracts and give aeir meaning:—
  - (i) Full many a gem of purest ray serene,
    The dark unfathomed caves of ocean bear;
    Full many a flower is born to blush unseen,
    And waste its sweetness on the desert air!

(ii) A man he was to all the country dear, A passing rich with forty pounds a year.

- (iii) Lives of great men all remind us We can make our lives sublime.
- 5. Give the meaning of the following words and phrases; select any three words and any three phrases from among them, and show, by short sentences, how you would use them—
- (1) To take its colour from, (2) turning to our advantage, (3) obsequiousness, (4) catch him on the hip, (5) outright, (6) without scruple, (7) put new heart into, (8) worth while, (9) incentives, (10) without parallel, (11) unpropitious, (12) fractious, (13) indispensable, (14) etiquette, (15) begins his round, (16) under cover of hospitality.

6. Passages from books not prescribed:—

Re-write the following passages in your own words: bring out their meaning fully—

(a) It has often been a question in the schools, whether it be preferable to be a king by day, and a begger in our dreams by night, or, inverting the question, a begger by day

and a monarch while sleeping? It has been usually decided, that the sleeping monarch was the happiest man, since he is supposed to enjoy all his happiness without contamination; while the monarch in reality feels the various inconveniences that attend his station.

> (b) One day, Harun Al Rashid read A book, wherein the poet said :-"Where are the kings, and where the rest Of those who once the world possessed? They 're gone with all their pomp and show, They're gone the way that thou shalt go. Oh thou, who choosest for thy share The world, and what the world calls fair, Take all that it can give or lend, . But know that death is at the end!" Harun Al Rashid bowed his head: Tears fell upon the page he read.

(c) The king is come to marshal us, in all his armour

drest

And he has bound a snow white plume upon his gallant crest.

He looked upon his people, and a tear was in

his eye;

He looked upon the traitors, and his glance was

stern and high.

Right graciously be smiled on us, as rolled from wing to wing,

Down all our line, a defening shout, "God save our Lord the king!"

And if my standard-bearer fall, as fall full well he may

For never saw I promise, yet, of such a bleedy fray

Press where ye see my white plume shine amidst the ranks of war.

And be your Oriflamme? to-day the helmet of Navarre, †

<sup>\*</sup> The flag of that country (France). † The name of the king.

#### ENGLISH.—SECOND PAPER.

T. C. Jones, Esq., M. A., ...
W. K. Bonnaud, Esq., ...
Miss Bailey, ...

Examiners.

- 1. The stars burnt out in the pale blue air,
  And the thin white moon lay withering there,
  To tower, and cavern, and rift and tree,
  The owl and the bat fled drowsily.
  Day had kindled the dewy woods
  And the rocks above and the streams below.
  And the vapours in their multitudes,
  And the Apenines' shroud of summer snow,
  And clothed with light of aery gold
  The mists in their eastern caves uprolled,
  - (a) Arrange in three columns the nouns, verbs and adjectives in the above passage.
  - (b) Conjugate (i. e., give the chief parts of) all the verbs.
- 2. Give the plural forms of, the following nouns:— Knife, roof, goose, potato, tooth, son-in-law, sheep, summons.
- (a) Distinguish between transitive and intransitive verbs, and give examples of each.
  - (b) Reconstruct the following sentences so that the verbs are in the passive voice:—
    - (i) The king struck his servant.
    - (ii). They told the messengers many lies.
  - (c) What is the strong and what is the weak conjugation?

    Give examples of each.

Conjugate the following verbs:— Teach, do, seethe, spin, rive, saw.

Leach, do, seethe, spin, rive, saw.

4. Define relative pronouns, demonstrative pronoun and personal pronouns, and give examples to show the use of each.

What are the two forms of the possessive of personal pronouns, and how are they respectively used?

How can you explain such a double possessive as.

This book of minc.

5. What is the difference between a phrase and a sentence? Turn the phrases in italics in the following passages into sentences.

(a) All defence was useless, the judges having already decided the matter among themselves.

(b) The children, in great distress, ran home.

- (c) I am glad to see you well.
  (d) During their stay at College, they made good use of their time.
- 6. Discuss the grammar of the following idiomatic sentences :-

(i) They shouted to each other.(ii) He himself did it.

- (iii) Their sorrows shall be multiplied that run after another God.
  - (iv) He read a few books.
- 7. Distinguish between a compound and a complex seatence. Write out the subordinate clauses contained in the following complex sentences, and state what kind of clause each one is :-

(a) That he is ill is evident.

(b) All that glitters is not gold.

(c) Bring him here that I may see him.
(d) Tell me where I may find him.

- (e) I remember the place where I was born.
- 8. Analyse the following sentences in tabular form:

The king who had been watching the battle (i) became alarmed when his army began to retire.

- (ii) History begins when the father explains to his son, how the small world, in which he has to live, came to be what it is
- .9. Parse fully every word in the following sentence: He ran home as quickly as he could,

- 10. (i) What are the rules for turning a simple sentence into an interrogative one in English?
  - (ii) Give the rules for the sequence of tenses.
- 11. Turn the following passage into Indirect Speech:—

(a) "Where are you going?" side the merchant.

"I was just coming to see you."

"To earn my bread by the labour of my hands," replied the youth.

"Do you really want work?" said the merchant,

"Yes, If you have any."

"Then follow me and carry a box from a shop to my house."

"I don't see how I can do that," said the youth.

(b) Write down in Direct Speech the words used by the young man in the following passage:—

The young man said that I had guessed wrongly, that he had nothing of the kind in his thoughts. He hoped I would not be unmindful of him, when I came to England; that he would give me some letters to his friends in London, to let them know how good I had been to him, and in what part of the world, and under what circumstances I had left him.

#### ENGLISH.—THIRD PAPER.

DR. G. THIBAUT SET THE PAPER.

C. Dodd, Esq., ... ... ... Examiners.

Translate from Urdu into English:—

(a) ملک چین میں ایک بیوپاری سچائی امیں بہت مشہور تھا۔ایک دن کسی اور دیس کا بیوپاری اوسکے گہر آیا اور دو هزار کی چاندی کی ایئتین اوسکے پاس دهر کر اپنے گاوں کو لوت گیا۔چینی بیوپاری نے تین بوس تک اوسکی راہ دیکہی۔مگر جب وہ نہ آیا تب اوسے بتی سونی هوئی

اور اوسکا پنه لگانیکے لئے اوسنے اپنا نوکر اوسکے گاوں کو بہیجا۔ نوکر خبر لایا که وہ تو مرگیا پراوسکے گہر میں اوسکے جورو اور پندرہ یا سوله برس کا ایک لڑکا ہے۔ یہ سنتے ہی اوس بیوپاری نے اوسکے لڑکے کو ایک چتہی لکہکر اپنے گہر بلایا اور اوسے چاندی کی ایتین دکھاکر کہا کہ یہ دھن تیرا ہے تو ایجا۔ وہ اڑکا اس بات کو سنکر اچنبھے میں آیا اور اوس بیوپاریکے منه کو دیکھنے لگا تب اوس بیوپاری نے لڑکے کو سب حال سنا کر وہ دھن اوس لڑکے کو سونپ دیا \*\*

(b) هند کے سمالک شہائی کے راجون میں نیپال سب طرحسے خود مختار اور برا قدیم راج ھے۔ یہاں ابتک بہت سے پرانے رواج ویسے هي جاري هيں جيسے قديم آريوں کے وقت میں تھے۔ اوسکے بعضے حصے ایسے زرخیز هیں که وهاں سَال میں تیں فصلیں کاتی جاتی هیں۔ یہان کئی قوم کے اوگ وهقے هیں۔ یہاں کے قدیم باشندتے تاتاري اور چینني لوگ تھے۔ حکومت یہاں کی گورکہوں کے ھاتہ میں ھے۔جو صورت میں چینیونسی کچہ ملتے هیں قد کے ناتے بدصورت اور ارتے میں بڑے سپاھی ھیں۔ یہانکا خاندان شاھی اودیپور کے رانا کے نسلون سے فیے اور اودیپور سے یہاں آکر بسے هیں-سممدغوري نے جسوقت هندوستان پر حمله کیا اوسوقت اودیپور کے خاندان شاهي کے کوئي کوئي شاهزادگان راجپوتانه سے کہاون کو جابسے اور کہاوں سے پورب کے جانب آتے گئے اور وھانگے اوگونسے شادی بیاہ کرتے ہوئے ایک جدی قوم ہوگئے اور فَيْهِالِّي كَهِلانِهِ لَكَه - كَجِهم دن هُوتُه سرجنتُ بهادر فيهال راج کے وزیر آعظم برے مشہور سیاست دان هوگئے هیں- یہ ولایت بھی گئے تھے اور سرکار انگریزکے بڑے دوست تھے۔ انہوں نے نیپال کی بہت کچہ ترقی کی۔سی ستاوں کے بلوے میں سرکار کی بہت مدہ کی تھی،

Translate from Hindi into English: —.

(a) चीन देश में एक व्यापारी सचौटी के लिये बहुत प्रसिद्ध था। एक दिन किसी और देश का व्यापारी उसके घर आया और दो हजार रुपये की चांदी की इंटे उसके. पास घर कर अपने गांव की लीट गया। चीनी व्यापारी ने तीन बरस तक उसकी राह देखी। परन्तु जब वह न आया तब उसे बड़ी चिन्ता हुई और उसका पता लगाने के हेतु उसने अपना नौकर उसके गांव की भेजा। नौकरसमा-चार लाया कि वह ती नर गया पर उसके घर में उसकी स्त्री स्रीर पन्द्रह सोलह बरस का एक लड़का है। यह अनते ही उस व्यापारी ने उसके लड़के की एक चिट्ठी लिख कर अपने घर बुलाया और उसे चांदी की इँटे दिखा कर कहा यह धन तेरा है। तू लेजा। वह जड़का इस बात की सुन कर अचरने में आया और उस व्यापारी के संह की श्रीर देखने लगा। तब व्यापारी ने उस लड़के की सब वात्ती भुना कर सब धन उस लड़के के। सौंप दिया॥

(b) उत्तराखण्ड के राज्यों में नयपाल सब मांत खाधीन आरे बहुत पुराना राज्य है। यहां अब तक बहुत सी पुरानी रीतें वैसेही प्रचलित है जैसे पुराने आय्यों के समय में थीं। कोई र प्रदेश इसके ऐसे उर्बरा है कि वहां साल में तीन फ़सल काटी जाती हैं। कई तरह के जाति के लोग यहां रहते हैं। प्राचीन निवासी यहां तातारी और चीनी लोग ये। राज्य प्रवन्ध यहां का गोरखों के हाथ में है। जो सूरत में चीनियों से थोड़ा बहुत मिलते हैं। कद के नाटे, बद-सूरत, पर लड़ने में बड़े सिपाही। नयपाल के राजबंश उदयपुर के राणा के बंश हैं। और उदयपुर से यहां आकर

बसे हैं। महम्मद गोरी ने जिस समय हिन्दुस्तान का आक्रमण किया उस समय उदयपुर के राजवंश के केर्द २ राजकुमार राजपूताने से पहले कुनाडां जा बसे श्रीर कुमाऊं से पूरव के फ़ीर फ़ाते गये। फ़ीर वहां के लोगों से व्याह शादी करते हुये पृथक् जाति नयपाली इस नाम से कहलाने लगे। कुछ दिन हुये सर जङ्ग बहादुर नयपाल राज्य के प्रधान मंत्री बड़े नीतिज्ञ हो गये हैं। ये विलायत भी गये थे श्रीर सर्कार श्रङ्गरेज़ के बड़े मित्र थे। नयपाल की बहुत कुछ उनति इन्हों ने कियी। सन् ५० के वलवे में सर्कार की बड़ी सहायता कियी थी।

#### MATHEMATICS.

(Arithmetic and Algebra.)

BABU SARAT CHANDRA MUKERJEE, M. A. Examiners. J. W. BACON, Esq., M. A.

1. What is the largest number which divides both 2397 and 2491 without remainder? What is the smallest number

which is divisible by both of these numbers.

State and prove the rule for pointing in multiplication of decimals. Why is removal of the decimal point one place to the right equivalent to multiplication by 10? Illustrate your answer by comparing the numbers 23.015 and 230.15.

Find the square root of 08027.

3. A person lent another a sum of money for 72 days at 3 per cent. per annum. At the end of that time he received £  $\frac{1}{2}$ 93-12s- $0\frac{1}{2}d$ . What was the sum lent?

4. The compound interest on a sum of money for 3 years at 5 per cent. is £ 331-0s-3d.; what is the simple interest?

5. If a rupee is worth one shilling and three pence half-penny, and a shilling is worth 125 frances, what is the value in francs of 1,365 runces?

6. Show that-

$$(ay-bx)^2+(bz-cy)^2+(cx-az)^2+(ax+by+cz)^4$$
 is divisible by  $a^2+b^2+c^2$  and  $x^2+y^2+z^2$ .

7. Find the highest common factor of  $4x^4-9x^2+6x-1$  and  $6x^3-7x^2+1$ .

(i) 
$$\frac{1}{a^2 - 3b^2 + 2ab} + \frac{1}{b^2 - 3a^2 + 2ab} - \frac{2}{3a^2 + 10ab + 3b^2}$$
(ii) 
$$\frac{a^4 + x^4 + ax(a^2 + x^2) + a^2x^2}{a^5 - x^5} \div \frac{a^2 + x^2 + ax}{a^3 - x^3}$$

9. A merchant buys goods at 24 guiueas the cwt. and by retailing them at 5s. 3d. the fb. makes 10 per cent. more profit than if he had sold the whole for £240. What weight did he buy?

10. If a:b::b:c::c:d; prove that  $a^2:d^2::a^3:c^3$ .

## GEOMETRY AND MENSURATION.

1. Define a rhombus, a gnomon, the angle of a segment, an arc, a rec-

tilineal figure, and a locus.

2. (A) If from the ends of the side of a triangle there be drawn two straight lines to a point within the triangle, these shall be less than the other two sides of the triangle, but shall contain a greater angle.

(B) ABC is a triangle and P is any point within it: show that the sum of PA, PB, and PC, is less than the sum of the sides of the triangle.

3. (A) If a straight line be divided into any two parts, the rectangle contained by the whole and one of the parts, is equal to the rectangle contained by the two parts, together with the square on the aforesaid part.

(B) Divide a given straight line into parts such that the sum of

their squares shall be equal to a given square.

4. (A) If a straight line touch a eircle, the straight line drawn from the centre to the point of contact shall be perpendicular to the line touching the circle.

(B) Describe a circle which shall pass through a given point and

touch a given straight line at a given point.

5. Describe a triangle equiangular to a given triangle about a given circle.

6. Find the locus of the middle point of all the equal chords of a circle.

7. In a right angled triangle, the difference of the sides is 21 feet, and the hypotenuse is 39 feet: find both these sides.

8. The sides of a quadrilateral inscribed in a circle, taken in order, are

25, 39, 60 and 52 feet; find the area of the quadrilateral.

9. Assuming the eirenmference of a circle to be 31 times the diameter, find the circumference of the circle whose area is 1,386 sq., ft.

#### ARABIC.—FIRST PAPER.

SHAMS-UL-ULMA MAULVI SYED AMJAD ALI, M.A. ... Examiner.

1. Translate into English:—

فلها سهم الخليفة من نعم هذه الا بيات قال والله طيب والله مليم نله درک يا نعم ما افصح اسانک و ما اوضح بيانك \_ ولم يزالوا في فرح و سرو رآاي نصف الليل - ثم قالت اخت الخليفة - اسمح يا اميرالمومنين - اني رايت حكاية في الكتب عن بعض ارباب المراتب - قال الخليفة و ماتلك الحكاية-فقالت له اخته-اسهم يا اميرالهومنين -انه كان بهدينة الكوفة صبى يقال له نعهة بن الربيع و كان له جا رية يصبها و تعبد و كالله فد تربت معه في فرش واهد-فلها بلغا و تهكن حبهبا من بعضهها رما ههاالدهر يذكيته و جار عليههاا الزمان بآفاته وحكم عليهها بالفراق وتحيلت عليهها الوشاة - حتى خرجت من دارة و اخذوها سرقة من مكانه - ثم ان سازفها باعها المعض الملوك بعشرة آلات دينار - و كان عندالجارية لبو لاها من البحبة مثل ما عنده لها - فغارق مولاها اهله و نعمته وداره وسافرفي طلبها وتسبب في اجتماعه بهاً وخاطر بنفسه و بذل مهجنه - حتى توسل الى اجتهاعه بجاريته وكانت يقال اها نعم - فلها اجتمع بها لم يستقر بهما التجلوس حتى دخل عليهها الهلك الذي كآن اشتراها من الذني سرقها فعجلَّ عليهماالهلك وأمر بقتلهمًا ولم ينصف من نفسه و لم يههل عليهما في حكمه - فها تقول يا أميرالمومنين في قلة انصاك هذا الملك المناك المالك المالك المالك المالة

- 2. In the above passage explain the expressions:
   الله مليم لله درك مااقصم السانك and give their equivalent other Arabic expressions.
- 3. Translate the following and refer them to their authors:—

كل خليل كنت خاللته \* لاترك الله له وا ضعه فكلهم اروغ من ثعلب \* مااشبه الليلة بالبارحه احسن اليالة الناس تستعبد قلوبهم \* وطالها استعبد الانسان احسان ياخان الجسم كم تسعي لخدمته \* اتطلب الربع فيهافيه خسران اقبل على المنفس واستكهل فضائلها \* فانت بالنفس لابالجسم انسان على قدر الكريم المخارم على قدر الكريم المخارم ويعظم في عين العظائم \* ويعضر في عين العظيم العظائم ويعضر في عين العظيم العظائم

- 5. Re-write the above extract with diacritical marks, and point out the falsity of rhyme in couplet 5.

## ARABIC.—SECOND PAPER.

MAULVI MOHAMMED YUSUF JAFRI ... Examiner.

N. B.—Give vowel-points to every Arabic word you make use of in your answers.

### 1. Translate into Arabic:—

This world is the harvest for the next. To the wise a hint is enough. Assist your brother in distress. Contentment is the key of repose. You must read three pages of this book every day. When do you intend going to Persia? She does not mean to remain in this country after winter. Why have you not done what I told you? My master cannot come to see you to-morrow. At what hour yesterday morning did they march for Delhi? If you forget another time, then I will punish you severely. Give him two dirhams to buy a cap for me. Has your son written out the letter as I told him? Verily God does whatever He likes. Her daughter is more beautiful than your sister. I am going to the Mosque to make my Friday prayers. Handsome is your slave's daughter! I saw his father sitting under a tree. We all went together to her house. Respect thy parents.

2. Translate into English:—

طلب الكل فوت الكل القرض مقراض المحبة - مناع الدنيا قليل - الموء مع من احب - ان ايئس الانسان طال لسانه حنى بلا سخاء كنهر بلا ماء - الانسان مركب من الجهل والخطاء حذه بالهوت حتى يرضي بالحبي - النقد خير من النسيئة ان لم يكن وفاق فقراق - اذا تخاصها اللحان ظهر الهسروق - الحاهل عدو نفسه فكيف يكون صديق غيره - حبك الشئي الحبي ويصم - احسن أن اردت أن يحسن اليك - حب الدنيا والمال رأس كل خطيئة - الدال على الخير كفاعله - ربما كان السكوت جوابا - الشيخ شاب في حب اثنين في حب طول الحيوة و كثرة المال - لا تؤخر عمل اليوم النحر من طلب شيئا و جد وجد - من كتم سرة وجد مرادة - يغوض البحر من طلب

اللالي- اعملوا ما شئتم انه بها تعملون بصير - اذا كان في الانسان عشر خصال تسعة منها صالحة ووا حدة هي سوة الخلق افسدت هذه الخصلة تلك التسعة - يوم واحد للعالم خير من الحيوة كلها للجاهل - ارحم من في الارض يرحمك من في السهاء \*

- 3. Write down the Arabic cardinal numbers from one to fifteen, both, masculine and femine.
  - . 4. Name the مفاعيل خوسه, and give an example of each.
- أ اتمال كاتمه state their government, and give examples.
- 6. What kind of particles are بائل and what is the difference in their uses?

## PERSIAN.—FIRST PAPER.

Munshi Ram Kishen Maulvi Abdul Jalil

 $\cdots$ } Examiners.

1. Translate into English:

دو ادیر زاده بودند در مصر یکے علم آموختی (۵)
و دیگری مال اندوختے - این علامه عصر شد و آن عزیز مصر پس تونگر بچشم حقارت دارن دوویش نظر کرد و گفت بسلطنت رسیدم - تو همچنان در مسکنت بماندی - گفت ای برادر شکر باریتعالی مرا می باید گفتن که میراث پیخمبران یافتم یعنی علم و تو میراث فراعون یعنی ملک مصر \*

ظاهرا کار ما از شها نیست - عارت بخود پرعارت(6) است این نهود بی بود خود آفتاب سرکوه است بدست آمد چه و نیامد چه ـ شهافکر خود کنید که درینجا بهم چشهان چه رو خواهید نهود \*

- 2. (a) What sort of g is in دیگری-آمرختی-یک and باندی ?
  - (b) Give the derivation and the plurals of

- (c) Write what you know of فرعون.
- (d) Who is the author of the passage (b) and to whom was it written?
- 3. Explain in English and give the plurals of the words underlined:
- صاحب عیار گفت از برای ما عجب قطار شنو(a)
  آوردهٔ اگر کسے مہار شان بکشاید هریکے ازگلهٔ دیگر گراید \*دو خاطر داشتند که عہارت عالی بسازند چون عبر (b)
  - و فانكرد از قوة بفعل نيامده \*
- خواب وخور براي آنست كه نيروي جستوي (٥) أيزدي رضا فراهم آيد-بيچاره آدمي بيدانشي مقصود پندارد «
- 4. Relate in Persian the story of منك پشت and وزدم and give its moral.
- 5. Render the following extracts into English, refer them to their respective authors and mention the names of their principal works.
- مها زور مندي مكن بر كهان «كه بريك نيط مي نهاند جهان (۵) سر پنجة ناتوان بر مهيه «كه گر دُست يابد بر آيد بهيچ مبر گفتهت پاے مردم زجاي «كه عاجز شوي گردر آئي زپاي دل دوستان جهح بهتركه گنج «خزينه تهي به إكه مردم برنج
  - فلک کو دیر مهرو زود کین است (b)
    درین حر مانسرا کاروی این است
    یکے را برکشد چون خود بر افلاک
    یکے را افگند چون سایه بر خاک
    خوش آن دانا بهر کاری و باری
    که از کارش نگیرد اعتباری
    نه از اقبال او گردن فیرازد
    نسه از ادبار او جانش گیراد

- 6. (a) What is the use of in sais and in what different senses is it used in Persian? Give examples.
- (b) Distinguish between اسم مرصوك and أسم عند ; and شبية and ثشبية and اسم عند ; and أستعارة
  - 7. Explain the following couplets in Persian:
- ساقیا بر خیز و در ده جام را \* خاک بر سر کی غم ایام را(a) ساغر n در کفیم نه تاز سر \* بر کشم این دای ازری فام را از هنرمندان گزین تو دوستی \* زا نکهیاری را نشاید بی هنر (b) هر کس از ناکس طبعد ارد و فا \* از درخت بید n جوید ثهو
- 8. Analyse according to Persian Grammar any one hemistich (\*\*\*) in question 7.

Further write out the hemistiches in question 7 that contain no Arabic words, in a very clear hand.

### PERSIAN.—SECOND PAPER.

Munshi M. Ahmad, Maulvi Yakub Ali,

:: Examiners.

I. (a) Translate literally into English:

آغاز وانجام بسوے یزدان پاک است-و یاوري از اوست پر ستایش اورا سزاست پهر آنکه از انجام آگاهي یافت بنده شد پهر که یاري ازو دانست فروتن گشت پکسیکه از داد و دهش و ی آگاه شد به بندگي گردن نهاد-و از سرکشي چشم پوشید پهترین چیزیکه از خدا به بنده رسد دانش این جهان آسوزش آن جهان است - خوشترین آرزوئیکه بنده از خدا دارد تندرستي است پنیکو ترین سخنان ستایش یزدان خدا دارد تندرستي است پنیکو ترین سخنان ستایش در گوشه پاک است پ تونگري در بیخواهشي پاک است ی در دوست کاري - و بزرگواري در بیخواهشي پ تونگري در خرسندي است - و درویشي در جستن تونگري پس توانگري درویشي در دوستی درویشي در درویشي درویش درویشي درویش درو

خستني \* و دانا آنکه اول را بجوید و از ثاني دست بشوید \*

(b) Translate into English:—

بهرام گور وقتے در هواے گرم بدر باغے رسید - پیریکه باغبانی کردے آنجا حاض بود-گفت اے پیردرین باغ آنار هست أ كفت آرے - بھرام فرمود كه قدھے آب آنار بيار -پیر برفت و فی احال قدیے پر آب انار کردی بیرون آورد و بُدست بهرام داد - بیامید و گفت - آے پیر سالے آزیں باغ چند حاصل میکنی ? گفت سه صد دینار - گفت بدیوان خراج میدھی ? گفت بادشاء ما از درخت چیزے نمیگرد و از زراعت عشر مَيگيرد - بهرام باخود انديشه كرد كه در مُهلكت من باغ بسیار است و در هُر باغے درخت بیشَهار - اگر از حاصل باغ عشر بديوان دهند مبلغے حاصل شود و رعيت را چندان زيائے نرسد - بعد از این بفرمایم تا خراج از محصول باغات نیز بگَيرند- پس بَاغْبَان رَا كُفُت قديَّح ديكُر آبَ انار بيار -باغبان برفت و پس از مدم قده عاتب آورد - بهرام گفت آے پیر نوبت اول رفتی و زور ۱ آوردی و این نوبت انتظار بسیار دائي و برابر آن نياوردي - پير ندانست که آن جوان بهرام است - گفت آے جوان گذات از س نبود - از بادشاہ بود که درین وقت نیت خود را تغیر داده و اندیشهٔ ظلم فرسوده لاجرم بركت از ميوم بيرون رفته - بهرام ازين سخل متاثر گشتُ و آن اندیشه از دل بیرون کرد \*

2. (a) Translate literally into Persian substituting appropriate and idiomatic equivalents for the italicized words or pharses:—

It is related that about six hundred years ago, the King of England attacked Robert Bruce, ruler of Scotland with a large army and signally defeated him. Bruce concealed himself in a hut from fear of the enemy. There he flung himself in

self down in despair on a bed in a sad mood. He happened to look at the ceiling and noticed a spider fail six times in making a web; but it made a seventh attempt and succeeded. Bruce thereupon resolved to make another attempt and he gained the object of his desire.

(b) Translate into idiomatic Persian:-

. To

THE PRINCIPAL,

Dally College.

DEAR SIR,

I have been a pupil in the Daly College under you for the last four years, and appeared for the Entrance Examination this year, but failed to pass. I am unable to continue at College any longer because of the expense, and must try to obtain some appointment by which I may be able to earn my own living. May I ask you kindly to give me a testimonial to help me in getting some such work?

I remain,
DEAR SIR,

Your Obedient pupil,

X. Y. Z.

(c) Translate into Persian in as clear hand as you can manage to write:—

A dog with a piece of flesh in his mouth was crossing a river, when he saw his own shadow reflected in the clear stream; and thought that it was another dog who had another piece of flesh in his mouth. Being overpowered by greed and avarice, he resolved to make himself master of that also; but in snapping at it he dropped the bit he was carrying, which was irrecoverably lost; hence the wise have remarked. Avarice is the root of all evil.

## SANSKRIT.—FIRST PAPER.

PT. ADITYA RAM BHATTACHARYA, M. A., ... Examiner.

1. Re-write the following in your own Sanskrit, using

words and construction as far as you can different from the text:-

श्रथ कदाचित् दीर्घकर्णो नाम नार्जार: पित्तशावकान् भत्तियतुनागतः। ततस्तमायान्तं दूष्ट्वा पित्तशावकैर्भयाकुलै-महान् कीलाहलः कृतः। तच्छुत्वा जरद्गवेनाक्तम्। केाऽय-मायाति। दीर्घकर्णो ग्रथमवलोक्य समयमाह। हा हतोऽस्मि।

# अथवा । तावद् भयस्य भेतव्यं यावद् भयमनागतम् ॥ आगतन्तु भयं वीदय प्रतिकुर्याद् यशोचितम् ॥

- 2. (a) Write a grammatical note on the use of the genitive case in भदस्य occurring in the verse quoted above.
- (b) Conjugate the root of आह and of भेतन्यम् in जर् (present).
- (c) State the rule of Sandhi in तच्छुत्वा. (
- 3. बुभुद्धितः किं न करोति पापम्।
- (a) Give in English the story from your (ext-book that the moral quoted above illustrates.
- (b) Can you change the sentence into the passive construction?
- (c) How do you form the word ভ্ৰমু জিন:?
- (d) Conjugate its root in नाट् (present).
- 4. Explain:—

श्रिप सम्पूर्णता युक्तेः कर्त्तव्याः सहदो बुधैः। नदीशः परिपूर्णोऽपि चन्द्रोदयमुदीक्षते॥

- 5. Quote verses from the chánakya-níti-sár-sangraha and the Hitopadesa-sára-sangraha the last quarters of which are given below.
  - (a) चतुर्थे किं करिष्यति ।
  - (b) मितिमान् न प्रकाशयेत्।

- (c) यते कृते यदि न सिध्यति कीएत्र दोषः।
- (d) न बन्धुमध्ये धनहीनजीवनम्।
- 6. उपाध्यायं पितरं मातरंच येऽभिद्रुह्यन्ते मनस। कम्मंगा वा।
- (a) Write a grammatical note on আপির হান্त.
- (b) What should be the change in the case of the noung governed by আনিছুৱানী if you use the verb with out the prefix.
- (c) complete the verse by supplying the second half.
- 7. Translate into English:—
  तास्यां पुर्ध्यामयोध्यायां वेद्वित् सर्वसङ्ग्रहः।
  दीर्घद्शीं सहातेजाः पौरजानपद्प्रियः॥
  बलवान् निहतामित्रो मित्रवान् बिजितेन्द्रियः।
  धनेश्च सञ्चयेश्चान्येः शक्रवेश्रवणोपमः॥
  यथा मनुमहातेजा लोकस्य परिरिच्चता।
  तथा दशर्थो राजा लोकस्य परिरिच्चता॥
  रोन सत्याभिसन्येन त्रिवर्गमनुतिष्ठता।
  पालिता सा पुरी श्रेष्ठा इन्द्रेणेवामरावती॥
- 8. (a) Decline दीर्घरर्शी, महातेजा:, परिएक्तिता in the plural number of all the cases.
- (b) Expound the samása of निहितामित्रो and शक्तवैश्रवणीयमः
- (c) Re-write the last shloka after changing the construction from the passive into the active.
- (d) Is there any final aim of life not denoted by त्रियर्ग: ?

#### SANSKRIT.—SECOND PAPER.

PT. RAM SASTRI TAILANG

Examiner.

- Translate into Sanskrit:—
  - (a) What is sweeter than honey?

(b) This book was written by my pupil.

(c) The use of riches is to promote the happiness of others.

(d) A monarch should be the protector of his subjects.

(e) Be pleased to bestow on me your friendship.

(f) Having so said, he opened the door and went out.

(g) The report is that a tiger has killed a man.

(h) A king is the strength of the weak; crying is the strength of children; silence is the strength of the ignorant; mercy is the strength of the righteous.

- Translate into English:
  - (1) खुखमापतितं सेव्यं दुःखमापतितं तथा । चक्रवत् परिवर्तन्ते दुःखानि च सुखानि च॥
  - (2) पयःपानं भुजङ्गानां केवलं विषवर्धनम् । उपदेशो हि सूर्वातां प्रकीवाय न शान्तये॥
  - (3) प्रांतस्यं हि ननुष्याकां श्ररीरस्थो महान् रिपु:। नास्त्युद्यसमा वन्धुः कृत्वा यं नावजीदति॥
    - (4) यान्ति न्यायप्रवृत्तस्य तिर्वञ्जोऽपि सहायतास् । श्रपन्थानं तु गच्छन्तं सादरोऽपि विसञ्जति ॥
- (5) श्रस्ति ब्रह्मार्यये कपूरितलका नाग एस्ती । तम-वलोक्य सर्वे भगालाश्चिन्तयन्ति एव 'यद्ययं केनाप्युपायेन मृयते तदा प्रसाक्षम् एतदृहेन नासचतुष्टयस्य भोजनं भ-विष्यति । तत्रैकेन वृद्धग्रगालेन प्रतिचार्तं 'नया तुद्धिप्रमा-वात अस्य गरणं साधियतव्यस् । अनन्तरं स नञ्जूनः कर्पूर-तिलक्षनीपं गत्वा प्रगन्याबद्त् 'देव दूरप्रवादं कुरुं। हस्ती ब्रूते 'की भवानु कुती वा सनायातः'। सोऽवद्त

'जम्बूको ऽहं सर्ववनवासिक्तः प्रमुक्तिक्ति सवत्यकारां प्रस्थापितो यद् विना राज्ञा ऽवस्थातुं न युक्तं तद्त्राटवीरा- ज्ये ऽक्षिपक्तं सवान् सर्वस्वानिगुणोपेतो निक्षितः । तद्यथा लग्नवेला न विचलति तथा कृत्वा सत्वरम् आगम्यतां देवेन ' इत्युक्ता गत्थाय चिलतः । ततो ऽसौ राज्यलोभाकृष्टः कपूर- तिलकः ध्रगाल वर्त्सना धावन् सहापङ्को निस्ताः । ततस्तेन हस्तिनोक्तं 'सखे ध्रगाल पत्रय पङ्को निपतितो ऽहं चिये'। ततस्तेन श्रगालेन विहस्योक्तं 'मत्पुच्छावलस्वनं कृत्वोत्तिष्ठ। यत्मद्वस्वित त्थया प्रत्ययः कृतस्तदनुभूयतानग्राणं दुःस्म्'।

(6) लामस्तेषां जयस्तेषां कुतस्तेषां पराभव: । येषामिन्दी वरश्यामी हृद्यस्थी जनादेन: ॥

#### HISTORY.

M. Crosse, Esq., M.A., Miss Jessie Rait, M.A.,

::: Examiners.

- 1. What are the chief events in the reign either of Henry III, or of Mary?
- 2. Mention any two English kings who have laid claim to the throne of France. What war arose out of this claim of the kings of England? What were the chief battles in it? Give a short account of Joan d'Arc.
- 3. What were the causes and results of any two of the following wars:—

(1) The Wars of the Roses.

- (2) The Civil war in the time of Charles I.
- (3) The War of the Spanish Succession.
- (4) The American War.
- 4. Give a short account of the career of Napoleon Bonaparte.
- 5. State what you know of the two most famous of Mahmud's invasions of India.

- 6. Give a short account of the Emperor Akbers reign and policy.
- 7. Mention the chief events that occured during the administration of Warren Hastings.

8. Answer one only of the following questions:—

(1) Sketch briefly the social progress of India under Lord Delhousie's rule.

or

(2) What are (a) The Viceroy's Executive Council, (b) The Viceroy's Legislative Council, (c) The Provincial Legislative Councils, (d) Municipalities. With regard to Municipalities' what are their duties, how are they constituted, and what Viceroy extended the elective principle?

9. Write notes on any five of the following:—

(1) The Subsidiary System, (2) Chand Bibi, (3) The Bahmani Kingdom, (4) The Character of Sivaji, (5) Magna Chatra, (6) The people's Charter, (7) The Nore and Spithead Mutinies, (8) The fall of Walpole, (9) The Spanish Armada.

#### GEOGRAPHY.

REV. G. M. BULLOCH, ... } Examiners.

- 1. What towns in the world have a population of one million or more each? Mention the six largest islands, and the four principal archipelagoes in the world.
- 2. Give an account of the different races of men in Europe, indicating the countries where they are found.
  - 3. State where and what the following are:—
    Dartmoor, Leipzig, Riga, Guiana, Tanganyika, Scaw Fell,
    Mekong, Zanzibar.
- 4. Draw a map of the Mediterranean Sea, with its principal islands, indicating the position of the chief towns on its shores, and the mouths of the rivers falling into it.
- 5. Mention in order the principal stations we would pass in travelling by rail from Peshawar to Madras. What rivers would you cross on the way?

6. Give an account of the chief ports of India, and its exports.

7. State what are the imperfections of maps drawn on

the plain of Mercator's projection.

8. Describe the growth of a Delta, and the formation

of the windings of a river.

9. Describe (1) A thermometer, (2) A barometer, and explain their uses. Why does ice float in water?

## GEOMETRICAL DRAWING.

G. T. SPARK, Esq.,

... Examiner.

- 1. Construct a diagonal scale the representative fraction of which is  $\frac{1}{1800}$ , to read feet. Draw a line, and on it mark off a distance of 359 feet.
- 2. Show how you would set off an angle of 221° without the aid of a protractor, scale of chords, or a right angle.

3. Construct a regular pentagon with 12 inch side, and inscribe the (largest possible) square.

4. Contruct a regular octagon of 11 inch side, and inscribe half as many circles as figure has sides, each circle touching one side and two circles.

5. Construct a figure ABCDE, with following dimen-

sions :--

AB=1.75 inches Angle ABC=120° BC = 2.00 $BCD = 75^{\circ}$ CD = 2.25DE = 2.10,, AF = 0.75

Also draw a similar figure one-half the size of given figure.

N.B.—All figures to be obtained by Geometrical Construction only. Sketches with theoretical explanations are not awarded marks.

## ELEMENTARY PHYSICS AND CHEMISTRY.

BABU G. N. CHAKRAVARTI, M.A., ... Examiner.

1. Define 'force' and distinguish clearly between 'cohesion' and 'chemical affinity.' Give examples,

- 2. Describe the Syphon. What conditions must be observed in its construction so that the instrument may work, and why?
- 3. What are echoes due to? Devise an experiment to show the artificial production of echoes.

Describe an apparatus that would determine the number of vibrations in a unit of time corresponding to any note.

- 4. What are the two different ways in which solids and liquids are heated? Illustrate your answer by experiments.
  - 5. Describe the Leydon jar and explain the principle on which it is worked. Also describe the discharging rod.
  - 6. Distinguish clearly between 'energy of motion' and 'energy in repose.' Which of those two kinds of energy is present in a Leyden jar charged with electricity? In a flash of lightning is it electricity which you see? If not, what is it?
- 7. What are the two gases present in the air? Demonstrate your answer by means of experiments. Mention what would happen if a live mouse were put in a vessel containing one of these gases then the other.
- 8. What are the different forms in which carbon is known to exist in the free state? How would you prove that carbon is contained (1) in animal flesh, and (2) in vegetable matter?
- 9. Describe the experiment for decomposing water drawing a sketch of the apparatus used. Of the two gases obtained how would you know which is oxygen and which is hydrogen? Is their any other way in which hydrogen can be got from water?
- 10. Describe the experiment for determining the composition of water by weight.
- 11. What is meant by 'oxidation?' Give some familiar examples of oxidation. Find out the weights of mercury and oxygen present in 432 ounces of red oxide of mercury (HgO) the combining weight of mercury being 200 and that of oxygen 16. How would you get metallic lead from "sugar of lead?"
- 12. How is cast-iron made and how does it differ chemically from wrought iron? What are the important uses of cast-iron and wrought-iron respectively? How is steel made, and what are its chief properties? What is rust?

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## BOOK-KEEPING.

## BABU RAM KUMAR SARKAR

... Examiner.

- 1. Define the terms Dr. and Cr.
- 2. When is cash Dr. and when is Cash Cr., and when are Goods Dr. and when are Goods Cr.?
- 3. Name the most important of the Books used by a merchant in Book-keeping? and (2) the purpose for which each is used?
- 4. What is the difference between Book-keeping by single entry and Book-keeping by double entry?
- 5. Describe the mode of ascertaining the whole amount of Goods bought and sold by a merchant during the year, or any given time.
- 6. Describe the method of posting the Day-Book into the Ledger, when separate accounts are kept for some classes of goods but not for all.
- 7. What is the use of a Trial Balance-sheet? and (2) how is this Balance-sheet drawn out?
- 8. From which Account is the Profit, or the Loss on the transactions of a Firm for the year, or for any given time, ascertained.
  - 9. How is the Profit and Loss account formed?
- 10. How is a Balance-sheet, to ascertain the state of affairs of a Firm at the end of the year, or at any convenient time, drawn out?
- 11. At the beginning of a year a set of Books is re-opened, and there are balance of the following accounts:—

Cash.

Bills Receivable.

Bills Payable.

Goods.

On which side of the Ledger will each be put?

12. Enter the following transactions into their proper Accounts in the Day-Book, Invoice-Book, Cash-Book and Ledger:—

28

	•	$\mathrm{Rs}.$	a.	p.
2nd June.	Goods sold on credit to Ram Lal		0	
3rd "	Goods-sold for cash to Mohamed			
•	Khan	5	0	0
4th "	Cash received from Bank	100	0	0
5th "	Goods bought on credit from		•	
	Messrs. John and Co	20	0	0
6th "	Paid rent of shop to Lachman			
•	Dass	50	0	0
7th "		2	0	0
7th " 8th "	Paid salary of Chaukidar	5	0	0

#### POLITICAL ECONOMY.

## T. Beck, Esq., B. A., ... Examiner.

- 1. What is wealth? Are air, land, rain, and canal water wealth or not, and why?
- 2. Distinguish between value and price. Explain what is meant by a general rise or fall of prices? Why cannot there be a general rise of values?
- 3. Why are gold and silver good materials for use as money? To what causes are the fall in the value of silver, as compared with gold due?
  - 4. Explain the effect of demand and supply upon prices.
- 5. What law determines the value of the rent of a piece of land? How is the margin of cultivation affected by the price of agricultural produce?
- 6. What is Malthus's theory of population? What effect is the great increase in the population of India, likely to produce (1) on the total wealth of the country, (2) on the wealth of the individual ryot?
  - 7. What elements constitute the profits of Capital?
- 8. Define credit. How does credit (1) effect an economy in the use of the precions metals, (2) encourage the productive employment of wealth?

# ENTRANCE AND SCHOOL-FINAL EXAMINATIONS, 1898.

## ENGLISH.—FIRST PAPER.

F. W. Sudmersen, Esq., M. A.,	}	
J. C. Kempster, Esq.,		Examiners.
C. H. LINTON, Esq., M. A.	\	

- 1. Answer the questions in italics which follow these three extracts. You are not required to paraphrase them.
- (a) It was a fine sunny morning when the thrilling cry of 'Land!' was given from the mast head. None but those who had experienced it can form an idea of the delicious throng of sensations which rush into an American's bosom, when he first comes in sight of Europe. There is a volume of associations with the very name. It is the land of promise, teeming with everything of which his childhood has heard, or on which his studious years have pondered.

Who wrote the above extract and to what does it refer? Why is the cry said to be "thrilling"? What is meant by "a delicious throng of sensations," and why would an American especially feel those sensations? What Associations does the name recall? Why is Europe called "the land of promise" and why is it said to be "teeming with everything of which his childhood has heard?"

(b) Schools, academies, and colleges give but the merest beginnings of culture in comparison with it. Far more influential is the life-education daily given in our homes, in the streets, behind counters, in workshops, at the loom and the plough, in counting-houses and manufactories and in the busy haunts of men.

What is meant by 'culture' and explain why 'schools' academies, and colleges give but the merest beginnings of it? What is 'life-education,' where is it obtained and why is it 'more influential?' How do 'homes and streets' give us 'life-education?' What various occupations are referred to or suggested by 'in workshops, at the loom and the plough, counting-houses and manufactures.'

In the world's broad field of battle,
In the bivouac of Life,
Be not like dumb, driven cattle!
Be a hero in the strife!

Why is the world called a 'broad field of battle' and 'Life,' bivouac!' What kind of men would you compare to 'dumb, driven cattle?' What figures of speech are employed in this verse?

2. Write the following in simple prose so as to describe the scene here depicted in your own words. You are not required to closely follow the original, and a mere substitution of other words or phrases will not be accepted.

His house was known to all the vagrant train,
He chid their wanderings, but releived their pain;
The long remember'd beggar was his guest,
Whose beard descending swept his aged breast;
The ruin'd spendthrift now no longer proud,
Claim'd kindred there, and had his claims allow'd;
The broken soldier, kindly bade to stay,
Sat by his fire, and talk'd the night away;
Wept o'er his wounds, or, tales of sorrow done,
Shoulder'd his crutch, and show'd how fields were won.

- 3. Narrate the story entitled "An Incident of the French Camp" by Robert Browning in your own words.
- 4. Answer the questions in italics following these two extracts.
  - (a) As some tall eliff, that lifts its awful form,
    Swells from the vale, and midway leaves the
    storm,

Though round its breast the rolling elouds are spread,

Eternal sunshine settles on its head.

Of whom is this simile an illustration? Show carefully and in detail that it is suitable to the person of whom it is used.

The friends so link'd together
I've seen around me fall
Like leaves in wintry weather,
I feel like one
Who treads alone
Some banquet hall deserted,
Whose lights are fled,
Whose garlands dead,
And all but he departed!

There are two similes employed here. What are they? Show by careful comparison the appropriateness of each.

(c) Ximenes, though possessed only of delegated power, which, from his advanced age he could not expect to enjoy long, assumed, together with the character of Regent, all the ideas natural to a monarch, and adopted schemes for extending the regal authority.

What is meant by 'delegate power' and how is Ximenes here said to have acted when he received this power? What 'ideas' are 'natural to a monarch?' Mention any of the schemes, which Ximenes adopted for 'extending the regal authority?'

- 5. Explain the following extracts and answer the questions in italics.
- (a) Some of God's greatest apostles have come from the 'ranks.'

What does the word 'ranks' usually mean and what does it mean in this case? Mention any of God's apostles who 'have come from the ranks.'

(b) Perhaps in this neglected spot, is laid
Some heart once pregnant with celestial fire;
Hands that the rod of empire might have swayed,
Or waked to ecstasy the living lyre:

What three classes of men are referred to in the last three lines of this verse?

6. Passages from books not prescribed.

You are required to re-write the following passages so as to bring out their meaning fully and clearly, adding anything which would make the meaning clearer and show that you fully understand the passages.

Under a spreading chestnut tree (a)The Village smithy stands; The smith, a mighty man is he, With large and sinewy hands; And the muscles of his brawny arms Are strong as iron bands. His hair is crisp, and black, and long, His face is like the tan; His brow is wet with honest sweat, He earns whate'er he can, And looks the whole world in the face, For he owes not any man. Toiling,—rejoicing,—sorrowing, Onward through life he goes Each morning sees some task begin Each evening sees it close; Something attempted, something done, Has earned a night's repose.

(b) The elephant is not used in the present day in India as an engine of war, but as a beast of burden, in the transport of baggage, tents and various stores; and there are peculiar circumstances in the march of an Indian army which render the elephant extremely serviceable. Where dense jungles offer impediments which the pioneers could not obviate without great labour and consequent delay, three or four elephants clear the way at once; trampling down the long grass and bushes, and breaking down the slender or trees, in short travelling all, before them, again, where the artillery has to be dragged through heavy roads of clay and mire, their strength and sagacity are in great requisition. They always apply their force in the most efficacious manner, and assist each other with wonderful sagacity.

#### ENGLISH,—SECOND PAPER.

A. Meff, Esq., M. A., Examiners. W. K. Bonnaud, Esq., MISS BALLEY.

## Explain the following expressions:—

- He was too impulsive not to have committed (a) many mistakes?
- The police got wind of the affair. (b)
- The regiment deserted to a man. (c)
- (d)He fell in with his views.
- To pay off old scores.
- (e) (f) He rose to the occasion.
- (g) He always stood in his own light.
  (h) They will stand by us at a pinch
- They will stand by us at a pinch.
- (i)He knew what was in the wind. It's all one. (j)
- (k)The remark stung me to the quick.

## Supply the missing prepositions in:-

(a) I sympathise——him; (b) to be opposed——the plan; (c) he differed—me; (d) I rejoice—your success; (e) he was unworthy—your friendship; (f) he was shocked his behaviour; (g) James I confided too much—favourities; (h) Akbar always inclined—mercy; (i) he was welldisposed—the Government; (j) to be displeased—the answer.

### Analyse:—

- If all the year were playing holidays, To sport would be as tedious as to work.
- I ask again "What's the matter?". *(b)*
- If wishes were horses, beggars would ride.
- It is better that ten guilty men should go unpunished than that one innocent man should be condemned.
- He looked as if he were ill.
- Far be it form me to contend that you are wrong.

4. Parse the words in thick type:—

(a) Let me die the death of the rightcous.

He failed, his industry notwithstanding.

(c) Forgive me this my virtue.
(d) How do you do?

Wait till then.

Reverse the meaning of these words by adding prefixes or suffixes :--

(a) Respectful; (b) orthodox; (c) mature; (d) ordinary.

6. A man on falling into a well exclaimed, "Nobody shall save me and I will be drowned."

What precisely does this remark mean and how would

you amend it?

7. Put into Indirect speech :-

Going along the street, I met Mr. Green, I asked—" Will you come to dinner to-night?" "I would, if I could," he replied "but my doctor declares that, in this weather, I may catch cold. Please excuse me, this time."

8. Give adjectives derived from (a) satisfy (b) compassion.

Give nouns meaning

(c) one who drinks to excess. (d) one who plays the piano.

(e) a little prince.

(f) a little goose.

Form verbs connected with (g) sympathy (h) ford. Give past participles of (i) run (i) seethe.

- 9. Distinguish carefully between the following pairs of words stating what each means:-
  - Sensitive, sensible. (a)

 $\cdot (b)$  Human, humane.

Pertinent, impertinent.

(d) Lawless, unlawful.

Artful, artistic.

- Observance, observation.
- To ignore, to be ignorant.

Politic, political.

(i)Ingenuous, ingenious.

Contemn, condemn.

#### URDU.—THIRD PAPER.

#### DR. G. THIBAUT SET THE PAPER.

C. Dodd, Esq. ... ... ... ... Examiners.

Translate from Urdu into English:-

A.

بھولا نام کا ایک بہت غریب آدامی تھا ۔ اوسکے چہہ چھوٹے چھوٹے لڑکے تھے۔اوسکو اسبات کا بڑا اندیشہ ہوا کہ اونكي پرورش كيونكر هوگي - اس انديشه كا ايك أور برآ سبب يه نها كه اوس سال اناج كي بيدايش بهت كم هودًى فہلے سال کے به نسبت اناج دونا سہنگا هور اتها۔ بهولا رات دن مزدوري كرتا تها تو بهي اتنع پيسے نه ملتع تهے كه اركون كو سوكهي روكهي روتي بهي ملے - اس سبب سے ولا بري تكليف ميں تها۔ایک دن آوسنے اپنے سب ارکوں کو پاس بلا کے آنکھوں میں آنسو بھر کر کہا۔اے میرے پیارے بھ**و** اس سال برّي مهنگي هے ميں اتني معنت او تھاتا هوں توبھي تہھارے دیت بھرنے قابل اناج نہیں ملتا۔ تم دیکھتے ہو گہ ميري دان بهر کي معنت سے آيک روتي ملتي هے - سو جو مجهکو ملقی ہے۔ اوسی سے تہکو اپنا نباہ کرنا ہوگا۔ دوسَری كوئي تدبير فهين هـ - هم جانتے هين كه اتنے مين تمهارا پيت نه بهریگا - مگر جان بچانیکا کسیقدر سهارا هویگا - یه کهکر وہ چپ ہوگیا۔ آگے اوس بیجارہ سے بولا نجاسکا وہ اوپر خدا کے طرف دیکھکر رونے لگا۔ اوسے دیکہ اوسکے لڑکے بھی رونے لگے۔" آے خدا آے غریب پرور ہم غریب اور بد قسمت هيں هيپر مهرباني کرو - ههاري باپ کي مدد کرو اور ههکو بھوکوں مت مارو۔ بھولا نے اس روتني کے سات تکرے کرکے ا بنے لڑکوں کو بانت دئیے اور اونہیں سے سب سے چھوتا تکرا أمني لكن ليا " "

B.

نیوتن برا نیکبخت آدمی تھا۔ با وجود اتنے برے عالم هونیکے اوس میں فرح برابر تکبر نہ تھا۔ اوس کی طبیعت ایسی فرم تھی کہ اوسے غصہ کبھی آتاهی نہ تھا۔ اوس کے پاس ایک پیارا چھوتا سا کتا تھا۔ ایک دن رات کے وقت نیوتن کہیں باهر گیا تھا۔ اور اوسکے کمرہ میں میز پربتی جل رهی تھی۔ اتنے میں کتے کے جی میں نہ جانے کیا آیا کہ وہ یک بیک ایسے زور سے میز پر اوچھل پڑا کہ جلتی هوئی بتی گر پڑی اور سب کاغذ جنکو لکھکر تیار کرنے میں نیوتن نے کئی سال لگائے تھے جل کر خاک هوگئے۔ نیوتن خیب اوت کر آیا تب یہ حال دیکھکر دل میں بڑا رنجیدہ شوا۔ لیکن غصہ میں آکر کتے کو کچہ سزا نہیں دی صرف اتناهی کہکر رهگیا کہ اے کتے تجہسے جو میرا نقصان هوا ہے اتناهی کہکر رهگیا کہ اے کتے تجہسے جو میرا نقصان هوا ہے اوسکی تجھکو کیا خبر ہے \*\*

# Translate from Hindi into English:-

मोला नाम का एक बहुत गरीव मनुष्य था। उसके व्यः छोटे र लड़के थे। उनका पालन पोपण कोंसे हो इस बात की उसे बड़ी जिन्ता पड़ी। उस चिन्ता का फ्रीर भी एक बड़ा कारण यह था कि उस साल प्रनाज बहुत कम हुई थी। पहिले साल की प्रपेक्षा प्रनाज दूना सहंगा हो गया था। भोला रात दिन सज़दूरी करता था तो भी इतने पैसे न सिलते थे कि लड़कों की फूखी करती थेटी भी मिले। इस कारण वह बड़े किया में था। एक दिन उसने प्रपंते सब लड़कों की पास बुलाकर आंखों में आंसू भर कर कहा "ए सेरे प्यारे बच्चो ! इस साल बड़ी महंगी है में इतनी मेहणत उठाता हूं तो भी तुन्हारे पेट भरने योग्य प्रनाज

नहीं मिलता। तुम देखते हो कि दिन भर की मेरी निहनत से एक रोटी मिलती है। सा जा मुक्त की लिलती है उसी से तुमकी अपना निर्वाह करना होगा दूसरा कुछ उपाय नहीं है। हम जानते हैं कि उतने में तो तुम्हारा पेट न भरेगा परन्तु प्राणधारण किसी क़दर होवेगा। यह कह कर वह चुप हो गया। आगे उस बिचारे से बोला न गया। वह जपर अगवान् की आर दृष्टि करके रोने लगा। उसे देख उसके लड़के भी रोने लगे" हे भगवान् हे दीनद्याल हम द्रिदी अभागी और असमर्थ हैं हम पर द्या कर हमकी भूखों मत मार। भोला ने फिर इस रोटी के सात दुकड़े किये और अपने लड़कों की बांट कर उनमें से सब से छोटा ट्कड़ा अपने लिये लिया॥

निउटन परम छुशील था। इतना भारी विद्वान् होने पर भी उसमें गर्व का लेश नहीं था। उसका स्वभाव इतना शान्त था कि उसे कोष तो कभी नहीं श्राता था। उसके पास एक प्यारा छोटा सा सुत्ता था। एक दिन रात्रि के समय निउटन कहीं बाहर गया था श्रीर उसके कनरे में मेज पर बत्ती जल रही थी। इतने भें कुत्ते के मन भें न साने क्या श्राया कि बस एका एकी ऐसे ज़ोर से भेज पर उद्यल पड़ा कि बत्ती गिर पड़ी श्रीर सब काग़ज़ जिनके। लिख कर तथ्यार करने में निउटन ने कई वर्ष लगाये थे जल कर भस्म हो गये। निउटन जब लीट कर श्राया तब बह हाल देख कर मन में बड़ा हु:खित हुआ। पर गुस्से भें श्राकर कुत्ते की कुछ सज़ा नहीं दी किन्तु इतना ही कह के रह गया कि "ऐ कुत्ते तुम्म से जी श्रेरा मुक्रवान हुआ उसकी तुम्म की क्या ख़बर है"॥

## MATHEMATICS.

(Arithmetic and Algebra.)

Babu Umesh Chandra Ghosh, M.A. ... } Examiners. C. H. Dixon, Esq., M.A., ...

- 1. Define Measure of a number and find the g. c. m. of:—
  - (i) Rs. 2, 4 as. and 10 as. (ii)  $\frac{3}{4}$  and  $\frac{5}{6}$ .

Find the greatest number which will divide 13956 and 14565 and leave a remainder 7 in each case.

2. Simplify:—

(a) 
$$\frac{(\frac{1}{2})^2 + (\frac{1}{3})^3}{(\frac{1}{3})^2 + (\frac{1}{2})^3} + \frac{1.25 \text{ of Rs. 5, 10 as. 8 pies}}{0.37 \text{ of Rs. 7, 12 as.}}$$
  
(b)  $\frac{1}{2} - \frac{1}{2} \div \frac{1}{3} \text{ of } \frac{1}{4} \div \frac{1}{5} \times \frac{1}{6}$ .

3. Extract the square root of

$$9 + \frac{1}{1}$$
 $1 + \frac{1}{6}$ 

and calculate the difference between this square root and  $8 + \frac{1}{10} \sqrt{2}$  to three places of decimals.

4. Find the cost in English money of travelling from Vienna to Trieste, a distance of 363 English miles, the average cost per German mile being 13 kreutzers. Given that

1 German mile=4½ English miles,

£ 1=25.5 francs,

3.75 francs=105 kreutzers.

- 5. What is the present value of a legacy of £ 149, 1s. 3d. due 7 years hence, at 2\frac{2}{3} per cent. simple interest.
- 6. Find the g. c. M. of  $2x^5 11x^2 9$  and  $4x^5 + 11x^4 + 81$ .
- 7. Simplify:—

$$(a)\frac{m-n}{(x-m)(x-n)} + \frac{n-p}{(x-n)(x-p)} + \frac{p-m}{(x-p)(x-m)}$$

$$(b)\frac{a^2}{(x-a)n} + \frac{2a}{(x-a)n-1} + \frac{1}{(x-a)n-2}$$

8. Solve:—

(a) 
$$2x + \frac{3}{y} = 4$$
$$3x + \frac{2}{y} = 5.$$

(b) 
$$\frac{1}{x+5} + \frac{1}{x+10} = \frac{2}{x}$$
.

9. If a:b=c:d, prove that

$$a(a+b+c+d) = (a+b)(a+c)$$
.

10. The number of months in the age of a man, on his birth-day in the year 1875, was exactly half of the number denoting the year in which he was born. In what year was he born?

## EUCLID AND MENSURATION.

A. E. PIERPOINT ESQ., M. A., B. Sc. BABU G. N. CHAKRAVARTI, M. A.

- 1. State axiom 12 and prove its converse.
- 2. Prove that the straight line which joins the middle points of the sides of a triangle is parallel to the third side.
- 3. Describe a parallelogram that shall be equal to a given rectilineal figure and have one of its angles equal to a given rectilineal angle.
- 4. Divide a given straight line into two parts so that the rectangle contained by the whole and one part may be equal to the square on the other part.
- 5. Define similar segments of circles and prove that on the same chord and on the same side of it there cannot be two similar segments of circles not coinciding with one another.
- 6. In two concentric circles any chord of the outer circle which is also a tangent of the inner circle is bisected at the point of tangency.

- 7. In a given circle inscribe a triangle equiangular to a given triangle.
- 8. ABCDE is a regular pentagon and AC, BE intersect at H. Show that AB = CH.
- 9. A room whose length is 30 feet and breadth twice its height takes 144 yards of paper 2 feet wide for its four walls: find the area of the floor.
- 10. The sides of triangle are 25, 39, 56 feet respectively: find the perpendicular from the opposite angle on the side of 56 feet.
- 11. Give a practical method by means of Geometry for ascertaining the distance of an inaccessible object A from a given position B. Illustrate your meaning by a diagram.
- 12. Make a sketch of a field from the accompanying notes and work out its area:—

	Links.	
•		
	⊙ A	
0	500	
$H_{20}$	320	
G 30	140	
	0	0
1	⊙ C	
turn	to the	right.
	0 C	
	400	0
	180	20 F
	0	0
From	⊙ B	go North East.
	ОВ	,2
0	300	
E 12	200	
D 10	90	
J 10		
73	0	0
From	$\odot A$	go North West.

### ARABIC.—FIRST PAPER.

### MAULVI MOHMMED YUSU JAFRI

... Examiner.

N.B.—Give vowel-points to every Arabic word you write in your answers.)

1, Translate into English:-

ثم قال للربيع اخرج سن مالك اربعة آلات دينار فاخرجها وسلمها الاعجمي - فقال له الاعجمي اريد ان ولدك يسافر الي دمشق - وان شاء الله تعالي لاارجع الابالجارية - ثم التفت العجمي الني الشاب و قال له ما اسمك - قال نعمة - قال يا فعمة اجلس انت وكن في امان الله تعالي - لقد جمع الله بينك و بين جاريتك - فاستوي جالسا - ثم قال له شد قلبك - فنحن فسافر في مثل هذا اليوم - فكل و اشرب وانبسط لتقوي على السفر - ثم ان الاعجمي اخذ في قضاء حوائجه من جميم على السفر - ثم ان الاعجمي اخذ في قضاء حوائجه من جميم ما يحتاج اليه من التحف واستكمل من والد نعمة عشرة آلات دينار - واخذ منه الخيل والجمال و غير ذاك مما يحتاج اليه لحمل الا ثقال في الطريق «

- (a) Re-write the above extract from the beginning to تعالئ with vowel-marks,
- (b) Name the مادة, صيغة and باب of تعالى, explaining the changes the word has undergone, and give its construction in the sentence انشاء الله تعالى.
- 2. Translate the following into English, explaining the grammatical pun contained therein:—
- جاء نحوے علی باب نحوے فدن بابه فقال من انت -فقال الزائر احمد - فاجاب صاحب الدار انصرف-فقال احمد لا ینصرف - فاجاب اذا کان نکرہ پنصرف \*
- 3. Give the singular or plural (as the case may be) of:—
  , ولد , دینار ,طریق , اثقال ,جیال ,خیل ,تحف , حوائیم , یوم
  . قلب ,اسم ,شاب ,جاریة

- 4. Translate into English:-
- كنا كزوج حمامة في ايكسة \* متمعين لصحة وشباب (a) دخل الزمان بنا و فرق بيننا \* ان الزمان مقرق الاحباب
- مالي وقفت على القبور مسلما \* قبرالحبيب فلم يردو ابي (b) احبيب مالك لا ترد جوابنا \* انيست بعدي هلة الاحباب

(c) انها الدنيا فناء ايس في الدنيا ثبوت العنكبوت انبا الدنيا كبيت نسجته العنكبوت

و لقد یکفیک منها ایها الطالب قوت

و لقد یکفیک منها یها الطالب قوت

و العهری عن قلیل کل من فیها یهوت

- 5. Name the author of the above verses, and write shortly what you know of him.
- 6. Translate into English, and explain the allusions contained therein:—

اذا قربت ساعة يا لها \* و زلزلت الارض زلزالها تسير الجبال علي سرعة \* كهر السحاب تري حالها و تنفطر الارض من نفخة \* هنالک تخرج اثقالها و لا بد من سائل قائل \* من الناس يومئن مالها تحدث اخبارها ربها \* و ربک لاشک او حي لها و يصدر كل الي موقف \* يقيم الكهول و اطفالها ترى النفس ماعهلت محضرا \* و لو ذرة كان مثقالها يحسا سبها مالک قادر \* فاما عليها و اما لها

7. Give the تركيب of the 7th couplet in the above question.

## ARABIC.—SECOND PAPER.

Shams-ul-Ulama Maulvi Sved Amjad Ali, m.a... Examiner.

N.B.—Give vowel marks to every Arabic word you write
in your answer papers.)

1. Translate into English:—

أن أبا حسان أأزياني قال ضاق علي الهال في بعض الأيام

ضيقا شديدًا حتى انه قد الم على البقال و الخباز و سائر المعاملين فاشتد على الكرب ولم اجد لي حيلة فبينها انا في تلك الحالة لا ادري كيف اصنح ان دخل على غلام لي فقال ان بالباب رجلا حاجا يطلب الدخول عليك فقلت اتذن له فدخل فاذا هورجل خراساني فسلم علي فرددت عليه السلام ثم قال لي هل انت ابو حسان الزيادي فقلت نعم و ما حاجتك قال اني رجل غريب واريد الحج و معي جهلة من الهال وانه قد اثقلني حهله \*

حكي أن امرة كان لها زوج منافق و كانت تقول على كل شئي من قول او فعل بسمالله فقال زوجها لا فعلن ما اخجلها به فدفع اليها صرة وقال لها احفظيها في محل و غطتها فغافلها و اخذ الصرة و اخذ ما فيها ورماها في بير قي دارة ثم طلبها منها فجاءت الي محلها و قالت بسمالله فامر الله جبريل ان يغزل سريعا و يعيدالصرة الي مكا فها فوضعت يدها لتا خذها فوجدتها كها و ضعتها فتعجب زوجها و تاب الى الله \*

2. Translate into Arabic:

When was she born, and how old is she now?
I am very sorry to see you in this wretched state.
Kindly inform me of what you saw there.

He asked me to put all these things in a box.

When I heard this I was greatly surprised.

They all began to weep bitterly on seeing me.
This is a very sad story. Please sit down.

He has married his daughter to his friend.

When will the marriage of your son be celebrated? Having heard the news of his arrival, he went out to

receive him, Owing to my falling ill, I was obliged to go home.

He was poisoned.

He was not killed but wounded severely.

He suffered great loss in trade. He loved his subjects, and was likewise loved by them.

3. Distinguish clearly between مبني and give their examples from your Arabic text or otherwise.

4. In what cases is a غير منصرف taken as ? Give

examples.

5. Point out the changes that the following words have undergone.

بعت-قال - داع - منقاد ـ مبيح - سيد- ديوان - ق - يذب

6. Write down some plural forms and give their instances.

### PERSIAN.—FIRST PAPER.

SHEIKH BAHADUR ALI, M.A. ... ... ... Examiners.

1. Translate into English:-

جوهر اگر در خلاب افتد همای نفیس ست و غبار (a) اگر بر فلک رود همای خسیس - استعداد بی تربیت دریخست و تربیت نا مستعد ضایع - خاکستر نسبت عالی دارد که آتش جوهر علوی است - ولیکن چون بنفس خود هنری ندارد با خاک برابر است \*

زیر دستان را باندازهٔ ایشان باز خواست نها - باهر (b) کسی باندازهٔ پایهٔ اور رفتار فرما «

برسست پیمانان استوار مباش وبر استواران سستي (٥) منها-بیشرمي ازان بتر نبود کسي که چیزي نداند بخود بنده - آنچه نه نهادهٔ بر مدار - کوتاه دست باش تا زبانت دراز باشد «

2. Whose speeches are contained in (b) and (c) Criticize any one of them.

? انتجه نه نهادهٔ بر مدار in بر مدار What is the subject and object of

3. Give meaning of the following extracts, in Persian and break each into separate clauses:—

از انجا که ههگي نيت حق طويت مصروت آنست (a)

که جهیع سیاسات بروفق شریعت غرا باجرا رسد و تهاسی احکام بر طبق دین متین بامضا - در مهلکتی باین فسحت که سه طرف آن دریای شور پیوسته است تنومندے برالا مطاولت و مصاولت ناترانے نشتابد \*

چون خاطر خورشید مآثررابنیهٔ رفیعه و امکنهٔ منیعه (b) که روزگار از علوهیت و سهو دولت خداوندیش بزبان بی زبانی در گفتارند و اعضار دیر یاز از آباد گیری و زینت گستری و نزاهت پروری نامش یادگار توجه تام است اکثر منازل را بنفس طرح میفرمایند \*

4. (a) Give meaning, roots, and opposites, of the following words:—

مطاولت - ابنيه - نفيس - حلي - قيلوله - آماني

(b) Give meanings of the following:—
قور - انہونج - صاحب رساله - راد - سودی
کنگاش - کنج کاوی - پالہنگ - بویزه - موبد

مقلهٔ - بهرام چوبین - ناصر خسرو write what you know of کوشیار and کوشیار

5. Translate the following into English:

گراني که دشهنست گويد سرني (۵) وگر نيستي گو برو باد سنسي وگر ابلهسي مشک را گنسده گفت تو مجهسوع شو کو پراگنسده گفت وگر ميسرود در پيساز اين سخن چنين است گو گنسده مغزي مکن

 $\dot{\phi}$ ون خون زحلی تشنهٔ او بر زمین رسید  $\dot{\phi}$ مون از زمین بدرو $\dot{\phi}$  عرش برین رسید

سرخدا که عارت و سالک به کس نگفت (c) هر حیر تم که باده فروش از کجا شنید

- آن قصدر که بهدوام درو جام گرفت (d) رو به بچده کرد و شیدر آرام گرفت بهدوام که گور میگدر فتی دائم اسروز نگدر که گور بهدرام گرفت
- 6. Explain allusions in extracts (b), (c) and (d), and name their authors respectively.
- 7. Explain in Persian the following verses:—

  تو انگه که برمن شوي فتحياب

  زن بيوه را داده باشي جواب

  من اربا تو چربم به هنگام کين

  شرم قايم انداز روي زمين

  سام که سيمرغ پسر گير داشت

  بود جوان گرچه پسر پير داشت
- 8. Give meaning of the following words and phrases:—خفرق سبل شبکوک کالیوه سغبه قایم انداز آهنگ رقاق دوپرویزنی فقاع گلابی مردسنگ ازما پیغاره نوبتی
- 9. Explain the formation of the following words and give their meaning, stating to what part of speech each belongs:—جاروب -گردون کیند هیگذان کشتی کنخدا -خرابست گفتگو
- 10. (a) Illustrate by examples the transitive as well as intransitive use of ريختن and آمرختن
  - (b) Analyse fully according to Persian Grammar the following couplet:—

مریز اے حکیم آستینہای در کجا بینی از خویشتن خواجہ پر

# PERSIAN.—SECOND PAPER.

MAULVI SYED ABDULLAH MAULVI YAKUB ALI

 $\cdots$  Examiners.

1. Translate into English:

در پائیز سنه ۱۲۰ هجري امیرزاده....را هوش شکار دامنگیرشده بعزم این کار بر سهند بادرفتار سوار شد و در صعرای در جوار مزار معمد نخچیران شکاری فراوان بهمر سيد و در اثناء تك و تاز شاهزاده گردن فرآز بقوچي باز خورده از فراز زین دوتا گشته خواست که قوچ را زنده بدست گيره فاگاه از قضاي آسهاني و حكم زباني بسرو گردن برزمين أُفتّاه و بعضي گفته اند كه قوچ را كرفته بقربوس زين رسانيد، و آن صید طبیده و اسپ رمیده شاهزاده از بالای زین بر زمين أُفتاكُ و بهر تقدير از شدت آن صدمه بيهوش شد ازيي واقعه عظمي خروش از نهاك مردم برآمه و امراء واعيان ببالين شاهزايه آمدند و قلق و اضطراب آغاز نهوده - تا بعد از اندك زماني بر خود جنبيده في الجمله اثر حيات از او مشاهده أفتاد و مدت سه شبانروز چند نوبت غش بردات پسندیده صفات او طاري گشت - از طبیبي که متصدی معالجه أو ميبود بسهو يا بقصد يا بعهد يا باغواي جمعي در تداوي تقصيرك واقع شد و خللي فاحش بدماغ شاهزاك عردمغته واه یافت - اکثر اوقات حکم او بر نهجی صادر میشد که يسنديده عقلا و لاين مرتبه سلطنت نهيبود كاه بهجرد خیالے بخون بیگناھے فرمان میداد و گام از طریق اسراف گنجی براه گدای مینهان \*

آمد و عرض حال کرد بیش پادشاهی آمد و عرض حال کرد بیاش نیرداخت باز گفت روی توجه نیافت زار نالید و تکوار بیجه کرد ملک بهم آمد و گفت خانه خراب درد سر را از پیشم نهی بری گفت خانه خود بر باد رفت سر توئی درد کجا

برم ملک را حرفش موثر آمد بدادش رسید و از ستهگارش انتقام کشید »

۳ – اکبر جامع اوصافے بود که عقل در آن حیران است دلے روشن و دانشی خدا داد و اقبال ایزدی داشت اگر راست جوئی سببش همیں است که دامن داش از غبار تعصب صاف بود کویند دستے در خط و سوادی ازعلم نداشت روزی سفیر روم رسید و بگذارش پیام نامه گذرا نید اکبر نامه را سر بزیر و پائین بالا گرفت سفیر تبسم کنان بنگریست فیضی دریافته ضبط نتوانست و گفت در حضرت ما سخن نگوئید پیخمبر ما مانیز اُمی بود با اینهه درفن تاریخ آگهی تمام داشت خصوصاً قصص هند را نیکو دانستے به نظم و اشعار لذتے گرفتے و نکتهایش نیکو دریافتی «

- 2. Translate into Persian the following passages:— A good man the only true friend.
- 1. A good man is the best friend, and therefore soonest to be chosen, longer to be retained, and, indeed, never to be parted with, unless he cease to be that for which he was chosen. The good man is a profitable useful person; and that is the band of an effective friendship. He only is fit to be chosen for a friend who can give counsel or defend my cause, or guide me right, or relieve my need or can and will, when I need it, do me good. My friend is a worthy person when he can become to me a guide or a support, an eye, or a hand, a staff or a rule. There must be in friendship something to distinguish it from a companion, and a countryman, from a school-fellow or a fellow-traveller. friendships must needs be most perfect, where the friends can be most useful. For men cannot be useful but by worthiness in the several instances. He that is wise and virtuous, rich and at hand, close and merciful, free of his money, and tenacions of a secret, open and ingenious, true and houest, is of himself and excellent man and therefore fit to be loved: nud he can do good to me in all capacities there I can need him, and therefore is fit to be a

- 2. I was hindered in my last, and so could not give you all the trouble I would have done. The description of a road, which your coach wheels have so often honoured, it would be needless to give you; suffice it that I arrived safe at my uncle's, who is a great hunter in imagination his dogs take up every chair in the house so I am forced to stand at this present writing; and though the gout forbids him galloping after them in the field, yet he continues still to regale his ears and nose with their comfortable noise and smell. He holds me mighty cheap, I perceive, for walking when I should ride and reading when I should hunt.
- 3. The musket was first, made in Italy in the year 1430. But the cannon was used in England a hundred years before that date. M. Barafi, in his lecture before the Scientific Institute of France in 1850, said, that both cannon and the musket were in use in China about 618 years before Christ. As to the powder, there are divergent opinions about it. It is said that it was known amongst the Hindus about the time of Moses; and it is supposed that the Arabs brought it to Europe. But some say it was invented by a German monk named Schwartz, in the fourteenth century; others say that an Englishman named R. Bacon invented it in the year 1270.

# SANSKRIT.—FIRST PAPER.

Pt. D. N. Chakravarti, M. A., ... Examiner.

1. Translate into English:—

एकदा जम्बूकेन सिनिशृतमुक्तम् । सखे मृग । एतिस्मन्
वनैकदेशे शस्यपूर्ण क्षेत्रमस्ति । तदहं त्वां नीत्वा दर्शयामि ।
तथा कृते सित स सृगः प्रत्यहं तत्र गत्वा शस्यं खादति ।
श्रथ क्षेत्र पितना क्षेत्रं दृष्ट्वा पाशस्तत्र नियोजितः । श्रनन्तरं
पुनरागतो सृगः पाशैर्बहोऽचिन्तयत् । कोमानितः कालपाशादिव व्याधपाशात् त्रातुं मित्रादन्यः समर्थः । तत्रान्तरे
चागत्योपस्थितो जम्बूकोऽचिन्तयत् । फलितं तावदस्माकं
कपट प्रबन्धेन । मनोरथसिद्धिरिप में बाहुल्याद् मविष्यति ।

# यतः एतस्योत्कृत्यमानस्य सांसासृग्लिप्तान्यस्योनि प्राप्तव्यानि सया।

(a) Parse the underlined words.

(b) Decline অন্তন্, অন্থি, and বিদ্ধি in the accusative (হিরোমা) locative (মনশা), and dative (মন্থা) cases respectively.

(c) Write grammatical notes on पत्यहं, and उत्कृत्यमानस्य.

- (d) State the rules of sandhi in पुनरागतो हुगः, and मनोरथ-सिन्द्रिपः
- 2. Express in simple Sanskrit the sense of the following extracts.
- (a) सतां साप्तपदं सैत्रवित्याहुर्विवुधा जनाः ॥
  - (b) अविष्यद्ये प्रमाणाभावात् कुत्र किं समाधातव्यम् । जन्यने यथा कार्य्य मनुष्टेयस् ॥
  - (c) यदाहं तव विरुद्धमाचरासि तत् अकृतमन्तरे मया विधृतम्
  - (d) श्रापदां कथितः पन्था इन्द्रियाणामसंयमः। तज्जयः सन्यदां सागी येनेष्टं तेन गम्यताम्॥
- (e) उपर्ध्यपरि पश्यन्तः सर्व एव द्रिदृति॥
- (f) त्रासहेतोविंगीतिरतु क्रियते जीविताग्रया ॥ Write grammatical notes on इतिहति.

3. Explain fully in Sanskrit :-

- (a) न यत्र शक्यते कर्तुं सामदाननणापि दा। भेद्रतत्र प्रयोक्तव्यो यतः स वणकारकः॥
- (b) सित्रद्रुहः कृतप्रस्य स्त्रीप्सस्य गुरुघातिनः । चतुर्णा वयसेतेषां निष्कृतिं नानुग्रुत्रुमः ॥
- (ः) नानाहितामि नीयाज्वा न सुद्रो वा न तस्कर:। कश्चिदासीद्याध्यायां न चावृत्तो न सङ्कर:॥

- (d) श्रिप नन्दत्वसापको नष्टो वापीष्टदर्शनात । प्रायेश प्राशिनां भूयो दुःखावेगोऽधिको भवेत ॥
- (1) Expound the samasa of the underlined words.
- (2) Change the voices of the extracts (a), and (b).
- (3) How are मयोक्तन्या and यड्वा formed?
- (4) Conjugate মঙ্গ in লঙ্গ (first preterite).
- (5) Decline सामन and यडनन in the nominative and accusative cases respectively.
- (6) Parse प्रायेण, and भूयः in extracts (d).
- 4. Expound the samasas in:

शत्रुभूतं, पीवरतनुः पुरुषाधमः, दुर्भित्तम्, कुलिशपातो-पमम्, मर्मज्ञाः, संघाजितकर्ष्यगलः, and स्निवेशितवेशमान्ता.

5. Write down the meanings of the following words:—

विलयाः, प्रायोपवैशनम्, आध्मातः, व्यसनम्, श्रोत्रियः, श्रगंवः, विस्रब्यः, and भेषजस्.

- 6. Gorrect the following sentences:-
- (a) गुगावन्तः अपत्याः भवन्तु ।
- (b) भवान् अतिथिरिस मे ।
- (c) जीवनरः श्रतानिभद्राणि पश्यति ।
- (d) चित्रकः दूरे प्रग्रष्टा ।
- (e) स्थालः सुखेन मांसं बुभोज।
- (f) व्याघाय प्रकुपितः सिंहः आधाति ।
- (g) श्रधनेन धनं प्रापत्वा तृरावन् मन्यति नगत्।
- (h) तेन मम महान् प्रीतिः सञ्जातः।

# SANSKRIT.—SECOND PAPER.

Манаманорарнуауа Рт. А. R. Внаттаснакуа, м. а., Examiner.

- 1. Translate into Sanskrit:
- (a) You must be kind to animals. You must not hurt living

beings. All things that can breathe can feel as well as you can and should not be hurt.

- (b) What fine large tank! Let us go and bathe in it. How cold the water is! Do not go into deep water or you may be drowned. Can you swim? No. I cannot. But I wish to learn if you will teach me.
- (c) Look how black the sky is. I think it will rain. Now it rains. Rain comes from the clouds and falls upon the earth and does a great deal of good.
- 2. Translate into English:-
- (a) नारित जीविताद्रस्यद्शिमतत्रं जगित वर्दं जंतूनाम्।
- (b) खपकारिषु यः साधुः साधुत्वे तत्य की गुगाः। अपकारिषुः यः साधुः ए साधुः सहितच्यते॥
- (c) श्रद्धीरतमधीषत्ते पत्ते च शिरता तृणम्। श्रद्धीरेव हि दीपी अयं रतं रतं तृणं तृणम्।।
- (d) निषेवते प्रशस्तानि निन्दितानि न सेवते। अनास्तिकः श्रद्धान एतत् परिवतनद्वाम्॥
- (e) श्रमित्रं खुएते नित्रं चित्रं हिए हिनरित च। कम्के चारभते दुष्टं लमाहुसूँ दचेतसन् ॥
- (f) श्रनाहूतः प्रविश्वति श्रपृष्ठी बहुनापते । श्रनिश्वरते विश्वतिति सूहचेता नरापनः ॥
- (ए) गुजबह् वस्तुसंसर्गाह् वाति खल्पोगि गौरवज् । पुष्पनालानुपङ्गेण सूनं जिरिस धार्याते ॥

#### HISTORY.

MISS J. ELDER RAIT, M.A.
M. CROSSE ESQ., M.A.

Evaniners.

1. Give a brief sketch of the events which led to the Norman Conquest. Mention any changes which it introduced into the laws and institutions of England.

2. Draw up a table giving the names and dates of the chief battles of the Wars of the Roses, and showing the victorious party in each case.

3. Enumerate the chief events in the reign of Queen

Elizabeth, and describe any one of them.

4. (a) Briefly explain Pitt's policy towards France under the Revolutionary Government.

(b) Write a short account of the chief events of the war between England and Revolutionary France up to the peace of Amiens.

5. How did the Reform Bill amend the system of repre-

sentation? By whom was it introduced?

6. Give an account of the various Greek invasions of India.

7. Trace the rise and fall of the French in India.

8. Write brief biographical notes on each of the following:—

(1) Amir Khan. (2) Count Lally. (3) Mir Jaffar.

(4) Sher Shah. (5) Raghoba.

## GEOGRAPHY.

F. G. HOUSDEN, ESQ., M.A.
J. W. BACON, ESQ., M.A.

Becaminers.

1. Discuss the causes that influence the climate of particular places.

2. Show how to find (a) the latitude (b) the longitude of

any station.

3. What are Coral Islands? How are they formed?

4. Give a detailed explanation of the formation of Springs.

5. Trace the belt of Volcanic action throughout the world.

- 6. Draw up a list of animals common to India and Africa. Why is the India fauna more nearly allied to the African fauna than to the Australian?
- 7. Describe the river and lake systems of Africa, mention any travellers who have explored the African rivers.

8. Trace the course of the Indus.

9. What are the following? Give their exact localities, Liverpool, Tasmania, Nijnei-Novogorod, Silhet, Bulgaria, Arcot. Damascus, Newcastle, Khartoum, Niagara.

10. Draw a neat map of Australia.

11. Sketch the river systems of England, indicating the positions of the chief towns on the river-banks.

#### GEOMETRICAL DRAWING.

G. T. Sparke, Esq. ... Examiner.

1. Make a scale  $3\frac{3}{4}$  inches long to read feet and inches. Representative fraction  $\frac{1}{10}$ .

2. Construct a scale of chords to read to 10.

3. Construct an ellipse with diameters of 3 and 14 inches.

4. Construct a triangle with sides of 2, 23 and 31 inches repectively, and within it construct a similar triangle with one side 1.5 inches.

5. In a circle with diameter of 25 inches construct a rectangle having two opposite sides 1.25 inches long and describe an equilateral triangle about the circle touching the circle at a given point B.

# ELEMENTARY PHYSICS AND CHEMISTRY.

E. G. Hill, Esq., ... Examiner.

- 1. Define "force." What do you mean by the force of gravity? "A large stone is suspended from a wooden beam by a piece of rope: state what would happen if there were no such thing as the force which is called cohesion.
- 2. What is the difference between solids, liquids, and gasses? Explain carefully the properties which are peculiar to each.

A square block of ice is heated till it all passes away as steam: write down all the changes which take place.

3. Make a careful drawing of a common water-pump and describe its action in full.

- 4. Describe an experiment showing that metals do not conduct heat equally. Explain how you would graduate a centigrade mercurial thermometer.
- 5. Describe a Grove's battery? Why is this an improvement on Volta's battery? How can you make a magnet, from your battery and a piece of soft iron?
- 6. What is the difference between hard and soft water? A certain kind of hard water can be made soft by boiling. Explain this. Is river water ever hard? If so over what sort of bed does the river probably flow?
- 7. What is coal, and what is coal gas? Describe an experiment by which coal gas can be prepared. What else can be prepared from coal besides gas?
- 8. What is the difference between wrought iron, cast iron and steel? For what is each used? How is iron got from hæmatic iron ore?
- 9. What is the action of plants and animals on the air? If there were no plants what would happen to all the animals. Give reasons for your answer.
- 10. Give briefly one method only for the preparation of Nitrogen, Oxygen and Hydrogen.

Which of the following are metals and which are

elements?

Carbon, Potassium, Red Lead, White Lead, Salt, Nitre, Potashes, Magnesium.

#### BOOK-KEEPING.

## BABU RAM KUMAR SIRCAR

Examiner.

- 1. What ought a marchant's Books to shew?
- 2. Which side of an account Book is allotted to debit account and which to credit account?
- 3. What is the Book-keeping by Double entry and why is it so called?
  - 4. Which side of a Cash Book is always the greatest, and why?
  - 5. What is the Ledger?
- 6. At the end of a year a Merchant balances his Ledger: describe the process.

7. Is each entry of Bills Receivable posted to the Dr. or Cr. of the person from whom the bill has been received.

8. Construct a Day Book, an Invoices Book, a Cash Book, a Ledger and a Trial Balance-sheet form the following transactions.

	Out	9			
•			$\mathbb{R}_{\leq 0}$	AS.	I'.
`Apri	1 1st J. Smith commenced business with		2,500	()	0
Ďo.	~		(,500		
· Do.			•		
	40 lbs. Assam tea @ 0-12-0 30 0	0			
	10 bags Rosa Sugar, 60 lbs.				
	@ 0-2-8 10 0	0			
	24 tins mixed Biscuits @ 0-14-0 21 0	-			
, '			61	0	0
			Rs.		Į.
Amri	1 4th Paid Trade expenses carriage			23	0
	5th Paid for shop Furniture	•••			
	9th Sold Goods for cash /	•••			ő
	15th Drawn from Meerut Bank	• • •	150		Ü
	18th Bought from Ramji Mul of Bar	 aiil		v	U
٠,	20 bags table rice 50 mds.	cmy			
. '	@ 7-8-0 375	) ()			
	5 bags coarse rice, 10 ands.	, ,,		•	
	@ 5-4-0 26 4	0			
	@ 5-4-0 26 4 25 bags 3 12				
	20 Dags 3 1.	· ·	405	Δ	^
The	20th Bought Goods for cash			$\frac{0}{6}$	0
D0'	22nd Drawn by J. Smith	•••	59		0
טע. דעם	23rd Paid Trade Expenses, Income Tax	• • •	25		0
D0.	25th Sold Goods for cash	•••	10		0
		•••	7	3	0
שלט.	26th Sold to George Lloyd, Agra,	0			
	2 bags rosa sugar, 12lbs. @ 0-3-3 2 7				
	5 lbs. Assam tea 6 1-0-0 5 0	_			
	Packing 0 4	0			_
, 	goul Callia W Tr 1 Nr 11 N		. 7	11	Û
дрги	28th Sold to W. Hobson, Moradabad,	_			
	10 mds. Table rice 6 9-0-0 90 0				
	Packings and other charges 1 12	0			
70	00:1 To '11: To '12: T		91		0
. Do.	29th Paid to Ramji Mul of Bareilly		380	12	i)
	Discount allowed		*) {	.1	O

What is the use of a Trial Balance-sheet?

9.

10. How do you ascertain the state of your affairs at the end of the year or at any other convenient time?

11. What is the meaning of the term "Taking Stock?"

12. Give abbreviations of the following terms:—

. Account.

Errors Excepted.

On account of.

Per cent.

#### POLITICAL ECONOMY.

A. H. Pirie, Esq. ... Examiner.

1. (a) Define "wealth." Is a State Railway, a Public Park, or a Public Library wealth?

(b) State the aims of Socialism, and point out the existing

reasons against it.

2. (a) Define "money." Why are kauris unsuitable as money?

(b) Why did the Mcrcantile System encourage exports and discourage imports?

(c) Can you account for the fact that a rupee now contains

only 13 annas worth of silver?

3. (a) Explain Ricardo's theory of the rent of land. Ought the landowner to get all or any part of the increment of profit accruing from a sudden rise in the price of agricultural produce?

(b) Distinguish between the Revenue and Rent of the land

in India,

4. (a) State the causes which determine the prices (1) of agricultural produce, (2) of manufactured commodities.

(b) Explain how an increased demand for a commodity may

cause a fall in its price.

5. (a) Show that there is a conflict of interests between the labourer and capitalist in the distribution of wealth produced.

(b) Explain the system by which English workmen manage to secure the highest possible wages:

(c) What happens when the workmen claim and obtain higher wages than they have a fair right to?

(d) Why do English capitalists invest money in the construction of Indian railway?

6. Distinguish between the policy of free Trade and that of Protection; and show the result of the former on the price of

food in England, and of the latter on the price of manufactured

goods in America.

7. Explain the nature and advantages of Bills of Exchange. Can you account for the fact, that if I purchase goods from Alexandria in Egypt, the merchant there will gladly accept payment by a Bill of Exchange payable in London?

8. (a) Enunciate Adam Smith's four canons of taxation.

(b) Distinguish, giving examples, between direct and indirect taxation. Which of these is more suitable to India and why?

# ENTRANCE AND SCHOOL-FINAL EXAMINATIONS 1899.

A. Meff, Esq., M. A.,

J. C. Kempster, Esq.,

Miss Bailey

...

Examiners.

(N.B.—Correct answers to question 12 and any eight out of questions 1—11 will carry full marks.)

### ENGLISH.—FIRST PAPER.

- 1. Explain the following passages:—
  - (a) Then none was for a party
    Then all were for the state.
    - (b) As we wax hot in faction In battle we wax cold.
  - (c) Evening and morn the Thirty.

    Have turned the verses o'er,

    Traced from the right on linen white

    By mighty seers of yore.
  - (d) The harvests of Arretium

    This year old men shall reap;
    This year young boys in Umbro

Shall plunge the struggling sheep;
And in the vats of Luna
This year the must shall foam
Round the white feet of laughing girls
Whose sires have marched to Rome.

(e) the holy maidens Who feed the eternal flame.

- 2. Describe in your own language (in about a dozen sentences) Horatius "gallant feat of arms."
- 3. Express in simple language the thought contained in each of the following passages:—
  - (a) My heart untravelled fondly turns to thee Still to my brother turns, with ceaseless pain And drags at each remove a lengthening chain.
  - (b) Though poor the peasant's hut, his feasts tho' small, He sees his little lot, the lot of all; Sees no contiguous palace rear its head To shame the meanness of his humble shed; No costly lord the sumptuous banquet deal To make him loathe his vegetable meal; But calm and bred in ignorance and toil Each wish contracting, fits him to the soil. Cheerful at morn he wakes from short repose, Breathes the keen air, and carols as he goes; With patient angle trolls the finny deep, Or drives his vent'rous ploughshare to the steep; Or seeks the den where snow tracks mark the way And drags the struggling savage into day.

4. Give the substance of what Goldsmith says with regard to the characteristics of the French people.

- 5. While the present ocean, rising o'er the pile.
  Sees an amphibious world beneath him smile.
  What country is here described? Show the appropriateness of the description.
- 6. Why is the Traveller called a Prospect of Society?
- 7. Describe in about a dozen sentences how Perseus slew the Gorgon.
- 8. 'Each of us has a golden Fleece to seek and a wild sea to sail over ere we reach it, and dangers to fight ere it be ours.'

Fully explain the above Metaphor.

9. Write a short account of how Thesus fell by his own pride.

10. Explain the following terms:—

(a) daily routine, (b) an eddy of wind, (c) live-stock (d) stockade, (c) privateer, (f) convalescence.

11. Explain the phrases in thick type:—

(a) the ship, in consequence of the failure of the house for which it was built, was to be sold.

(b) I was considered as some body

(c) I was well-off

(d) I signed my indentures.

(e) His advances towards me were very coolly received.

· (f) I naturally took to everything connected with the sea.

(g) Putting everything to rights.

(h) I determined to go before the mast.

(i) I am weaned from the things of this world.

- (j) The boy who was on his good behaviour stood sentry over it as brave as a judge.
- 12. (a) Wouldst shape a noble life? Then east
  No backward glances on the past.
  And though some what be lost and gone,
  Yet do thou act as one new-born.
  What each day wants, that shalt thou ask;
  Each day will set its proper task.
  Give others' work just share of praise
  Not of thine own the merits raise.
  Beware no follow-man thou hate
  And so in God's hand leave thy fate.
- (b) If I were to pray for a taste which should stand me instead under every variety of circumstances and be a source of happiness to me through life and a shield against its ills however things might go amiss and the world frown upon me, it would be a taste for reading. Give a man this taste, and the means of gratifying it, and you can hardly fail of making a happy man, unless indeed you put into his hands a most perverse selection of books. You place him in contact with the best society in every period of history, with the wisest and the purest characters that have adorned humanity. You make him a denizer of all nations—a contemporary of

all ages. The world has been created for him. It is hardly possible but the character of the reader should take a higher and better tone from the constant habit of associating in thought with a class of thinkers, to say the least of it, above the average of humanity.

Rewrite the above passages in your own words so as to bring out their meaning fully and clearly, ommitting no idea expressed in the original.

#### SUPPLEMENT.

- 1. It has been said that 'Goldsmith in writing the Deserted Village had not only an artistic but also a didactic purpose.' Explain the distinction here made.
- 2. Give, in your own words, a sketch of the character of the clergyman, in the Deserted Village,

3. Explain the following passages:—

(α) Along the lawn where scattered hamlets rose,
 Unwieldy wealth and cumbrous pomp repose,
 And every want to opulence allied,
 And every pang that folly pays to pride.

(b) I still had hopes my latest hours to crown,
Amidst these humble bowers to lay me down;
To husband out life's taper at the close,
And keep the flame from wasting by repose.

- (c) Where then, ah! where shall poverty reside,
  To scape the pressure of contiguous pride?
  If to some common's fenceless limits strayed
  He drives his flock to pick the scantly blade,
  Those fenceless fields the sons of wealth divide,
  And even the bareworn common is denied.
- (d) Those poisonous field with rank luxuriance crown'd Where the dark scorpion gathers death a round; Where at each step the stranger fears to wake, The rattling terrors of the vengeful snake; While oft in whirls the mad tornado flies, Mingling the ravaged landscape with the skies.

### ENGLISH.—SECOND PAPER.

F. W. SUDMERSEN, Esq., M.A.,
W. A. HIRST, Esq., B. A.
C. H. LINTON, Esq., M. A.

Examiners.

- Correct the following sentences where necessary and give reasons for your corrections:—
  - (a) He is a man whom I think deserves encouragement.

(b) He was angry at me asking the question.

(c) Sense and not riches win esteem.

(d) We must remember it is their circumstances, not they who are to blame.

(e) You did not ought to do that.

- (f) I think I will be gone by the time you come.
- 2. Expand the following words and phrases in thick type into the subordinate sentences and state the kind of each subordinate sentence so formed.
  - (a) Things seen are mightier than things heard.

(b) He was too lazy to work.

(c) The Ancient Britons rode in chariots with carred knives fastened to the wheel.

(d) He did his work as usual.

(e) The Commons resolved not to yield.

- (f) There was no danger of his being betrayed.
- 3. Supply the missing words in the following sentences:—
  - (a) The speechs of Mr. Gladstone were charactarised ......eloquence.

(b) He jumped.....the top of the wall and fell......

the platform.....the water.

- (c) He harried.....the park, stalking.....the paths .....the trees.
- (d) He exposed himself.....the cold.....the doctor's warning.

(e) He did nothing.....laugh.

(f) The poor were dying.....hunger.

(g) Wait..... I am ready; listen..... I sing.

4. (1) In the following sentences some of the words are incorrectly used. You are required to supply more appropriate ones without otherwise altering the sentences.

(a) His object was to form subordinary alliances with

the native princes.

(b) He won't do more than he can help.

(c) I acquiesce with you that his character is undeniable.

(d) By this means they will judge what to choose.

(e) Some may doubt that his partiality has carried him too far.

(2) What word would you employ to fill up the blank space in the following sentence:—

"The Angel of Death has been abroad through the land; we may almost hear the.....of his wings."

5. Explain the difference in meaning between the following sentences:—

(a) Do you say that he Will not return?

(b) Do you say that he should not return?

(c) Do you say that he shall not return?

(d) Do you say that he may not return?

6. Parse the words in thick type:—

(a) He is fond of learning music.

(b) The ups and downs of life must come.

(c) A man's a man for all that.

(d) It is a joyful thing to dwell together in unity.

(e) In digging the ground where I was working I found the spade of a working man.

(f) How far that little candle throws his beams!

7. Analyse the following sentences:—

(a) With him, directing his household, Gentle Evangeline lived his child, and the pride of the village.

(b) The visitors arrived at a time when all was confusion

(c) While we hear

The tides of music's golden sea

Setting towards eternity,

Uplifted high in heart and hope are we,

Until we doubt not that for one so two

Until we doubt not that for one so true. There must be other nobler work to do.

8. You are required to join together the following sentences, by the use of connecting words and proper punctuation marks, so as to make one sentence of the whole. The less important sentences should be made into subordinate ones.

(a) The low murmur of the pupil's voices could be heard from this spot, on a drowsy summer day.

(b) The pupils were coming over their lessons.

(c) The sound was like the hum of a bee-hive.

(d) The sound was interrupted, now and then, by the authoritative voice of the master.

(e) The sound was interrupted, too, at times, by the appaling sound of the birch.

(f) The master was urging some tardy loiterer along the flowery path of knowledge.

9. Re-write the following, changing indirect into direct speech, and direct into indirect, but making no other change.

A tall stranger entered the office and enquired of the clerk whether his master was within, to which the latter responded in the affirmative.

'Is he alone?' enquired the stranger.
'I believe he is sir' replied the clerk.

'Show me to his room, without announcing me' said the stranger.

'What do you mean, Sir,' said the clerk.

'Are you deaf?' enquired the stranger.

'No, Sir.'

'Show me to your master's room without announceing me.'

#### THIRD PAPER.

(Translation from Urdu.)

C. Dodd, Esq., Rev. E.S. Oakley, M.A., ... } Examinary.

Translate into English:-

الدور پہلے ایک گاؤں تھا۔ اہلیا باٹی کے وقت میں (a) شہر ہوگیا۔ اوسکو اپنی رعایا کے مال میں کچہ بھی لالھ

نه تهي اوسکي راج ميں جو کسيکي برهني هوني تو اوسکو ا يني هي برهني سهجهني نهي - گرميوں ميں حابجا پنسلے بِينَتُهَاتيَّتَهِيَّ جَاَّرُوں ميں كَمِل آور كَيْرَے بانتَّتي اور بهوكُهونكو جهانتك بن يرتي كهانيكو ديتي ثهي - اوسكي داكي رحهت كا ايك چهوتاسا نبونه يه، هے كه ندي ميں مجهليونكو كهلانے کے المّے آدمی نوکر تھے اور چڑیوں کے المّے پکے ہوئے کھیت مول لَئُم جاتنے تھے ۔ اوسکے عقل کا زور اور راج کا عہدہ بندوبست اسي بات سے ظاهر هوتا هے كه أكب به آبيونكے لوت مارسے بیو پاریونکو راسته چلفا مشکل هوگیا تها لیکن جب سے اوسنے یہ بندوبست کردیا کہ بھیل لوگ خود پروري کے المَّے ایک ادھیلا فی بیل بیوپاریونسے لیا کریں اور راستہ كى حفاظت ركھيں - اگر اونكے علاقه ميں كسيكا مال چوري جآوے تو وے دام دام بھر دیویں نہیں تو سزا واجب پاویں تب سے چوری چپاری لوت مار اون جنگل اور پہارونہیں بهت گهت گ<u>تي</u> \*

زمانه گذشته میں ایک بری ربت یہ تھی که (6) مرد اور عورت اور انکے بھی گائے بکریونکے مانند بکا کرتے تھے - اور جو اونکو مول لیما تھا اوسکے وی غلام کہلاتے تھے - یہ غلام اپنی مالک کی خدمت کرتے تھے - جسکام میں یہ اونکو لگاتا تھا وھی اونکو کرنا پڑتا تھا چاھے اونکا دل اوس کام کرنیکو چاھے یا نه چاھے نه اونکو تنخواہ ملتی تھی نه مصنت کی مزدوری دیتے تھے - سارے دنکی خدمت کے بعد مالک من مانا بھلا برا کھانا اونکو کھانیکے لئے دیدیتا اور اونکو وھی کھانا پڑتا تھا - خدا کا شکر ھے که اب یہ بے اور اونکو وھی کھانا پڑتا تھا - خدا کا شکر ھے که اب یہ بے رحمی کی ریت تقریباً ھر ایک ملک سے اور اور ہو کہ اب یہ بے زماند میں غلامونکو بہت تکلیف تھی - بہتیرے حاھل پاچی زماند میں غلامونکو بہت تکلیف تھی - بہتیرے حاھل پاچی

اونکو اپنا مال سہجھکر انکو بہت برے طرر سے رکھا کرتے تھے ۔ کام بہت سختی سے لیتے تھے اور کھانے پہنے میں بہت سختی کرتے تھے ۔ بیجارے غلام بھاگ بھی نہیں سکتے تھے کیونکہ پھر پکڑے جاتے تھے تو انکو اور بھی بڑی سزائیں ملتی تھیں۔ جیتے جی شیر کو کھلوا دئے جاتے تھے اور ھاتھی کے پانوں سے کچلوائے جاتے تھے ہ

# Translate into English:-

#### Α.

इन्दौर पहिले एक गांव घा श्रह्ल्या वाई के समय में शहर हुआ। प्रजा के धन में उसे कुछ भी लोभ न या। जो उसके राज्य में किसी की बढ़ती होती तो उमे बह अपनी ही बढ़ती समफती थी। गरमियों में जगह २ पोंमले बेंटाती थी जाड़ों में कम्बल और कपड़े बांटती और मुखों की जहां -तक बन पहता खाने को देती थी। उसके मनकी दया का एक छोटा सा दूष्टांत यह है कि नदी में मछलियों की खिलाने के लिये आदमी नौकर थे। और चिहियों के लिये पके हुए खेत मोल लिये जाते थे। उमकी बुद्धि का बल और राज्यका अच्छा प्रवंध इसी वात से प्रगट होता है कि आगे भीलों के लूटमार से व्यापारियों की बाट चलना कठिन हो गया था परेन्तु जब से यह प्रबंध कर दिया कि भील लोग अपने निर्वाह की अधेला बैल व्यापारियों से लिया करें श्रीर रास्तें। की घीकसाई रक्खें। यदि उनके इलाके में किसी का माल चोरी जाय तो वे दाम २ भर देवें नहीं तो उचित द्गड पावें। तब से घोरी चमारी लूट मार उन जङ्गल और पहाड़ों में बहुत घट गई घी॥

B

पिछले समय में एक बड़ी ख़ुरी रीति यह थी कि नर नारी और उनके बच्चे भी गाय बकरियों की भांति बिका करते थे। श्रीर जो इनका मील लेता था ये उसके दास कहलाते थे। ये दास अपने स्वामी की सेवा करते थे जिस काम में यह उनकी लगाता था वही उनकी करना पड़ता या। चाहे उसका मन उस काम करने की चाहे वा न चाहे। न इनका बेतन मिलती थी न मिहनत मज़दूरी देते थे। सारे दिन की सेवा के पीछे स्वामी मनमाना भला बुरा भोजन इनको खाने के लिये देता था श्रीर इनका वही खाना पड़ता था। ईश्वर की धन्यवाद है कि अब यह निर्देयता की रीति प्रायः हर एक देश से उठ गई है। पहिले समय में दासों के। बड़ा क्लेश था। बहुतेरे दृष्ट सूर्ख इनका अपना धन जान कर इनका बड़ी बुरी तरह से स्क्ला करते थे। काम बड़ी कठिनाई से लेते थे और खाने पहिनने में बड़ी तङ्गी करते थे। बेचारे दास भाग भी नहीं सकते थे क्योंकि फिर पकड़े जाते थे तो इनकी और भी बड़े दगड मिलते थे। जीते जी सिंह से भन्नगा करवाये जाते थे। हाथी के पांव से कुचलवाये जाते थे॥

### MATHEMATICS.—FIRST PAPER.

BABU BENI MADHAV SIRCAR, M.A.. ... Examiners. J. W. BACON, Esq., M.A.,

(Full marks will be given for nine questions correctly answered.)

1. Simplify:

 $\frac{\frac{1}{2} + \frac{1}{3} \text{ of } \frac{1}{4} + \frac{5}{6}}{\frac{1}{13} \text{ of } (1 + 5\frac{1}{2}) + \frac{5}{6} \text{ of } \frac{1}{23} \text{ of } (7 - 2\frac{2}{5}) - \frac{1}{3}}.$ 

and express 3 of Re. 1-5 as. as the decimal of Re. 1-4 as.

- 2. A number may be divided by 125 by multiplying it by 8, and then marking off the last three digits as decimals. Explain the reason for this; and divide 5335 by 125.
  - 3. What is the meaning of an "aliquot part?"

Find by Practice the value of 24 tons 3 cwts. 2 qrs. 25 lbs. at £ 17-11s-6d. per ton.

- 4. A piece of work can be done in 72 days by 17 men working together. If after 9 days of work, these are joined by 4 others, in how many days will the work be finished?
- 5. Extract the square root of 5 and of 5 each to 4 places of decimals; and shew that the square root of 4 is 6.
- 6. What is the difference between the interest on a bill £138-13s-4d, for 3 months, at 4 per cent., per annum, and the discount on the same for a quarter of a year, at the same rate?
- 7. (a) A speculator sells at a profit of 50 per cent; but this purchaser fails, and only pays 8 as, in the Rupee. How much per cent, does the speculator gain or lose by his venture?
- (b) A person investing in the four per cents, received per cent, for his money. What is the price of stock?
- 8. Find the difference between  $(1+x)^2+(1+x)^2y+(1+x)y^2+y^2$  and 3x(x+1)+y(y+1)+2xy+1 and find by what expression this difference must be multiplied that the product may be  $y^4+x^4$ .
- 9. Find the Highest Common Divisor of  $\omega^5 4x^3 \omega^2 + 2x + 2$  and  $\omega^5 x^2 2x + 2$  and find such a value of  $\omega$  as will make both the expressions vanish.
  - 10. Resolve the following expressions into factors.
- (i)  $w^4 10x^2 + 9$ . (ii)  $a^2(a+b+c)^2 + c^2(b+c+c)^2$  and extract the square root of

$$\left(x+\frac{1}{x}\right)^2$$

11. Solve the equations

(i) 
$$\frac{x+a}{x-a} - \frac{x-b}{x+b} = \frac{2(a+b)}{x}$$
.  
(ii)  $\frac{1}{x} + \frac{1}{y} = \frac{5}{6}$ ;  $3x+2y=2xy$ .

12. Express the sum of the fractions

$$\frac{1}{x(x-y)(x-z)}, \frac{1}{y(y-z)(y-x)} \text{ and } \frac{1}{z(z-x)(z-y)}$$

in its simplest form.

13. If 
$$\frac{x}{a} = \frac{y}{b}$$
 prove that 
$$\frac{x^2 + a^2}{x + a} + \frac{y^2 + b^2}{y + b} = \frac{(x + y)^2 + (a + b)^2}{(x + y) + (a + b)}.$$

#### SECOND PAPER.

Babu Umesh C. Ghose, M.A. Mahamahopadhayaya Pt. Sudhakar Dube Examiners.

(Full marks will be given for any nine questions correctly answered.)

I. State Euclid's twelfth axiom. Prove that if a straight line fall on two parallel straight lines, it makes the two interior angles on the same side together equal to two right angles.

Prove that two different straight lines, cannot be drawn through the same point parallel to a given straight line.

- 2. Prove that, in a right-angled triangle, the square described on the hypotenuse is equal to the sum of the squares described on the other two sides.
- 3. If a straight line is divided into any two parts, prove that the square on the whole line is equal to the sum of the squares on the two parts together with twice the rectangle contained by the two parts.

In a right-angled triangle, if a perpendicular is drawn from the right angle to the hypotenuse, the square on this perpendicular is equal to the rectangle contained by the segments of the hypotenuse.

4. Describe a square that shall be equal to a given rectilineal figure.

Given a square and one side of a rectangle which is equal to the square : find the other side.

5. Prove that angles in the same segment of a circle are equal.

If a series of triangles are drawn standing on the same base and having a given vertical angle, shew that the bisectors of their vertical angles all pass through a fixed point.

6. On a given straight line describe a segment of a circle which shall contain an angle equal to a given angle.

\* Construct a triangle, having given the base, the vertical angle and the altitude.

7. Inscribe a circle, in a given triangle.

Describe a circle, touching one side of a triangle and the other two produced.

- 8. Describe an isosceles triangle having each of the angles at the base double of the vertical angle.
- 9. The sides of a triangle are 5 inches, 7 inches and 8 inches respectively. Find the side of an equilateral triangle which is equal in area to this triangle. Give your result in inches correct to two places of decimals.
- 10. The chord of an arc of a circle is 5 yds. 1 ft. and its height, 2 ft.: find the length of the diameter of the circle.
- 11. The two parallel sides of a trapezium measure 58 yds. and 42 yds. respectively; the other sides are equal, each being 17 yds.; find its area.
- 12. Draw a rough sketch of the field and find its area from the accompanying field-book:

	Links.	
Ì	A	
	390	0
j	250	40
	200.	30
	100	0
	C	
j	C	,
	420	
•	360	0
	250	40
turn	to the	left
	В	
	$\overline{\mathbf{B}}$	
j	450	10
	200	40
	100	70
From	A	go East

#### ARABIC.—FIRST PAPER.

SHAMS-UL-ULMA M. S. AMJAD ALL, M.A. ... Examiner.

1. Translate the following into English:

قال بهرام ذكروا والله اعلم انه كان بهدينة الكوفة زجل سن وجوع اهلها يقال له الربيع ابن حاتم و كان كشيرالهال سرفه المحال و كان قدرزق ولدافسها عنعبة الله فبينها هوذات يوم بدكة النخاسين ان نظر الي جارية تعرض المبيع و غلي يدها وصيفة صغيرة بديعة في المحسن والمجمال فاشار الربيع الي المنخاس و قال له بكم هذه المجارية وابنتها فقال بخهسين فينارا فقال الربيع اكتب العهد و خذالهال وسلمه لمولاها ثم دفع للنخاس تبن الجارية و اعطاء دلالته و تسلم الجارية و ابنتها و مضي بهما الي بينه و اعطاء دلالته و تسلم الجارية المجارية قالت له يا ابن العم ما هذه الجارية حقال لها المجارية قالت له يا ابن العم ما هذه الجارية و اعلمي المجارية و اعلمي المجارية عبد الي المجارية المجارية عبد الي المجارية قالت له يا ابن العم ما هذه الجارية م المجارية المجارية المجارية عبد المحبرة التي علي يديها و اعلمي المجارية النها اذا كبرت ما يكون في بلاد العرب و المجم مثلها و لا أجهل منها فقالت له ابنة عبه نعم ما رأيت - تهم قالت

للجارية ما اسبك فقالت نها يا ستي اسبي ترفيق - قالت و سعل ما اسم ابنتك قالت سعد ـ قالت صدقت لقد سعدت و سعل من اشتراك ثم قالت يا ابن عبي ماتسبيها قال ما تختارينه قالت نسبيها نعم - قال الربيع نعم ما افكوت فيه - ثم أن ألمثيرة نعم تربت معه نعبة بن الربيح في مهد واحد الي حين بلغا من العبر عشر سنين و كان كل واحد منهما احسن من صاحبه و صارالغالم يقول لها يا اختى وهي تقول له يا اخي -

- 2. Re-write, very carefully, with discritical marks, the underlined expressions in the above extract and give their literal as well as their transferred senses mentioning which is meant here.
- 3. Explain the following expressions in the above extract:—

رجرع اللها - دكة النخاسين - العهد - تربت -

4. Translate the following into English:-

انظر الما ماتري يا ايها الرجل و وكن على حدر من قبل ترتهل و تدم الزاد من خير تغرزبه و فكل ساكن دار سوت يرتهل وانظر على معشر زانوامنازئيم فاصبحوافي الثريارهنا بهاعهلوا بنوابها نقع البنيان والدخررا و لم ينجهم الهملها انقضي الاجل كم املوا غير مقدورا هم فهضوا و الي القبور و لم ينفعهم الامل واستازلوا ساعلي عزر تبتهم و لذل ضيق لحود ساء ما نزلوا فجاءهم صارخ من بعدماد فنوا و اين الاسرة و التيجان و العلل أبن الوجوة التي كانت معجبة و من دونها تضرب الاستاروالهثل فافصم القبرعنهم حسب أنلهم المالتخدود فعنها الورد منتقل فداكلوا مداكلو يوماوما شربوا و فاصبحوا بعد طيب الاكل قداكلوا قد طال ما اكلو يوماوما شربوا و فاصبحوا بعد طيب الاكل قد اكلوا

5. Re-write the above extract with discritical marks

very carefully.

6. Give the singulars or plurals, as the case may be at the following with English meanings of each as well or their roots:—

رَجُلُ - دار - اعالي - اسرة - قيجان - جلل - مدينه - مال -

# ARABIC.—SECOND PAPER.

MAULVI HAHOMED YUSUF JAFRI, ... Examiner.

1. Translate the following sentences into Arabic and give yowel-points to your translation:—

He was glad at the death of his rival. I sold the book which you gave me. A good name excels riches. Death pities none be he rich or poor. I wrote a letter to your brother in the month of Ramazan. He took away my money, and now desires to take my life from me. Whosoever spares the bad, does harm to the good. When he came to the town, all the inhabitants came out to meet him. He that has little money, has likewise little, credit. A friend cannot be known in prosperity; and an enemy cannot be hidden in adversity. Zaid's brother is good child, because he reads his book. The mad and the woman, whom you saw yesterday, are dead to day, and will be buried to-morrow. One day of a wise man is worth the whole life of a fool. Wise men have their mouth in their heart, fools their heart in their mouth. Knowing is worth nothing, unless we do the good we know. He who has no children does not know what love means. I bought two horses for four hundred and fifteen dirhams.

2. Translate the following into English:—

اعلم ايها الولد العزيز ان - الله تعالي خلقك لتسعي في خدميه - فتعبده وتسبحه في الغدو والاصال \* اجعل الله صاحبا ولاع الناس جانبا \* يا ابن آلم اخرج حب الدنيا من قبلك - فانه لايجتمع حب الدنيا و حب الله في قلب واحد \* حكي أن ملكا بني قصرا و قال - انظراو ان كان فيه عيب فاصلحوا - فقال رجلمن الزهاد - اري فيه عيبين - فقالواله وما هما حقال يموت الملك ويخرب القصر - فقال الملك صدقت - ثم أقبل علي الله وترك القصرو الدنيا وساح في البراري زاهدا \* مثل الدنيا كمثل الظل - انا رايته حسبته ساكنا - وهويم مثل الدنيا كمثل الظل - انا رايته حسبته ساكنا - وهويم مثل الدنيا كمثل الفرام على الدوام و

ينقص كل احظة «قال افلاطون - لاتصحب اشر - فان طبعك يسرق من طبعه شرا وانت لاتعلم «قيل لحكيم - اي الهلوك افضل - ملك اليونان ام ملك القرس فقال - من ملك غضبه و شهو تدفهو افضل « اياكم والحسد فان الحسد يا كل الحسنات كها تاكل النار الحطت «اذا احب الله عبدا اكثر غهه - واذا ابغض عبدا اكثر دنياه «ايام الدهر ثلاثة - يوم مضي لايعود اليك - ويوم انت فيه لايدوم عليك - ويوم مستقبل لاتدري ما حاله ولاتعون من اهله «

3. Define Jale; mention its division and subdivision, and give an example of each.

4. Define معرب and and جبني; and state which of the following words are معرب and which مبني:—

هذا - يقول - ليس - هؤلاء \_ حكيم - يوسف

5. Give the various significations and Governments of Land I with illustrations.

6. Write down the ضمارُر منعرب منتمل through all the genders, numbers and persons.

# PERSIAN.—FIRST PAPER.

MAULVI SYED ABDULLAH, SHAMS-ULAMA M. ABDUL JALIL. ... Examiners.

1. Translate the following passages into English, and add etymological or historical notes on:—

عباسيان - قرآن - دولت - ريش - فرعون مرصع - دلق موسي مرقع - توانگر - درويش - غرى - بازارگانان - خانوادى - فيلسوت-آل عبا - طولون - جداين سلطان - حاكم بامرالله «

(a) توانگر فاسق کلوخ زر اندودست و درویش صالح شاهه خاک آلود-این یکے دلق موسیٰ ست مرقع و آن ریش فرعون مرصع و لیکن شدت نیکان روی درفرج دارد و دولت بدان سر در نشیب تلهیز برادت عاشق بررست و رونده بر معرفت سرخ بی بر عالم بر عهل درخت بربرو زاهد بیعلم خانه بردر سراد از نزول قرآن تحصیل سیرت خوبست نه ترتیل سورت مکتوب (۵) مسجد طولون - آنرا آمیز نے از آن عباسیان کرده است که حاکم مصر بوده است و بروزگار حاکم بادر الله که جداین سلطان بود فرزندان ابن طولون بیامده اند و این مسجد را به سی هزار دینار مغربی فروختند «

هواي مكه عظيم گرم باشد و آخر بههن ماه قديم خيار باد رنگ و باد نجان تازه ديدم انجا و اين نوبت چهارم كه به مكه رسيديم غره رجب سنه اثني و اربعين و اربعهائة تا بيستمني الحجه به مكه مجاور بودم پانزدهم فروردين قديم انگور رسيده بود و اول اردي بهشت خريزه فراوان \*

2. Of the following passages translate:-

(a) into English, word for word appraise (b) in Persian, changing from 15

paraphrase (b) in Persian, changing from 15 to 20 words

explain (c) in Persian referring to the context, given the sense (حالب) of (d) in Persian.

(a) هرگاه فكر مقدمة يا نقل سر گذشتي برزبان جواهر فشان ميرون مراتب سلامت و جزالت و مدارج براعت و بلاغت چنان رعايت مي يابد كه دشوار پسندان سخن طراز و دقيقه شناسان معني برداز قلائد فوائد آنرا آويزه گوش حقايق فيوش ميگردانند «

(b) به همین رفتار پسندیده کشور خویش را چنان بزرگ کرد که گویند برین کشورش تادریای مازندران خاور هندوستان فرودین مصر و دریای سرخ باختر فرات - و واپسین پیمبران در روزگار وی بجهان آمد \*\*

(c) الحق بے چنان میدانے وسیع آویزہ چنیں دو عفریت منظر کوہ پیکر بر روی کار نیاید - در زیر دست و پای ایں

فو بے ستون با چار ستون در اثناے گریز و تعاقب جہائے دست خوش و یا مال گردد \*

- (d) خطزیب نبط آن معدن مکارم و معالی که بر خط مهوشان خطهٔ داربائی خط نسخ کشیده با شکستگی کهال درستی دارد-حسن نغبهٔ هندوستان چون نغبهٔ حسن هند عالهگیرست نغبهٔ شناسان و حسن پرستان هر دیار مر او را اسیر «
  - 3. Give equivalent phrases to the following idioms:-

نعل در آتش شدن - مرغ زباني كردن - بروي روز افتادن -از پا در آوردن - پيش باز نبودن - گنج كاوي كردن -

4. Explain the allusions in the following couplets and name the author of each:—

عصاي كليم اند بسيسار خسوار پس انگسه نهايند خود را نسزار سام كه سيهرغ پسر گيسر داشت بود جوان گرچه پسر پير داشت اي زاده زياد نكردست هيچگسه نهرود اين عبل كه تو شداد كرده زدانند كان بشنسو اسروز قول كه فردا نكيسرت بهسرسد ز هول

5. Translate into English :-

ز مهررم مکش سوی پیکار خویش
گرفته مزن با گرفتار خرویش
من اربا تو چربم بهنگام کیرب
شوم قرایم انداز روی زمیرب
بازی چرخ بشکندش بیضه در کلاه
زیراکه عرض شعبده بااهل راز کرده

این مطرب از کجاست که سانه عراق ساخت

و آهنگ باز گشت براه حجاز کرد

- 6. (a) Give the ماضي, مستقبل , and ماضي of هايستن مأ امرحاضر.
  - (b) How are حاصل مصدر and صاصل formed in Persian?
  - (c) Analyse, using Persian Grammatical technicalities:—

( $\alpha$ ) حال دائم چه گویهت هست بغم سرشتهٔ خون شدهٔ شکستهٔ سوختهٔ برشتهٔ (b) جان زندگی از چشههٔ پر نوش تو دارد دل بستگی از سنبل گل پوش تو دارد

# PERSIAN.—SECOND PAPER.

MAULVI SYED KALAN, M.A., ... ... ... Examiners.

1. Translation the following passages into English:—

سقراط در عهد خود حکیمی با کهال وعدیمالهثال بود (۵) و خلایق را باواسر الهی هدایت می فرمود - و از ارتکاب فواهی امتفاع می نبود - مردمان ضلالت کیش و بطالت اندیش به عداوت او پرداختند - و پادشاه آن وقت را بقتل او ترغیب دادید و پادشاه بجهت دفح فتندعوام ورفح فساد انام به قتل او آماده شد - روز حکیم را بخلوت طلب داشته گفت که برا به دفح شورش خلایق مرا کشتن تو لازم آمد بهر فهمیکه هلاک خود بخواهی بعیل آید - حکیم زهررا اختیار فرمود بمهریک صدو نه سانگی راه ملک عدم پیهود - شاگردان فرمود بمهریک صدو نه سانگی راه ملک عدم پیهود - شاگردان او زیاده ازدوازده هزار بودند - از مقولات اوست که اصل کارها قدبیر است و اصل تدبیر تقدیی - تقدیر بر تدبیر غالب است که ان سفلیست و این علوی - وهم ازوست که خوش آن کسن که دشهنان از اندیشه رنج وازار او مطهئی باشند نه کسانیکه دوستان از و اندیشناک باشند - و دوستان را برههه

اسرار خود مطلح مگردان که اگر هیچگاه دشهن شوند بر تو . غالب نیایند »

آورد اند که خسرو پرویزاز بزرگے پرسید که از طبقات (۵) خلایق لائق سیاست کیست - گفت اے ملک خلایق پنج طبقه اند - اول آنها که در ذات خود نیک اند از ایشان همه نیکی بخلق میرسد ایشان را تقویت باید کرد وبا ایشان صحبت باید داشت - دوم جمعیکه بخود نیک اند اما نیکی ایشان بکس نمیرسد - ایشان را عزیز باید داشت و بر خیر تحریض باید کرد - سوم گروهے که میانه حال باشند یعنی از ایشان نه خیر بمردم رسد و نه شریعنی در ذات خود نه خیر باید داشر تحذیر باید فرسود - چهارم طایفه که ایشان بد باشند اما به کسے بد باید فرسود - چهارم طایفه که ایشان بد باشند اما به کسے بد باید فرسود - چهارم طایفه که ایشان بد باشند اما به کسے بد باید فرسود - چهارم طایفه که ایشان بد باشند اما به کسے بد باید فرسود - چهارم طایفه که ایشان بد باشند اما به کسے بد باید فرسود - پهارم طایفه که ایشان به بهردم رسد ایشان بنجم فرقه که هم بد باشند وهم بدی ایشان بهردم رسد ایشان بنجر م و عید و تهدید آنگه ضرب پس

2. Translate the following passages into Persian:

(a) Never speak anything for a truth which you know or believe to be false. Lying is a great sin against God, who gave us a tongue to speak truth and not falsehoods. It is a great offence against humanity itself; for when there is no regard to truth, there can be no safe society between man and man. And it is an injury to the speaker. Besides the disgrace which it brings upon him, it occasions so much baseness of mind, that he can scarcely tell truth or avoid lying even when has no colour of necessity for it; and, in time, he comes to such a pass, that, as other people cannot believe, he speak truth, so he himself scarcely knows when he tells a falsehood.

(b) When thou wishest to delight thyself, think of the virtues of those who live with thee; for instance, the

activity of one, and the modesty of another, and the liberality of a third, and some other good quality of a fourth. For nothing delights so much as the examples of the virtues, when they are exhibited in the morals of those who live with us, and present themselves in abundance. Wherefore we must keep them before us.

(b) A men went to a physician and asked for some medicine to relieve the pain that he had in his stomach. The physician inquired what he had eaten in the morning, and on being told that his breakfast had been some half-baked bread, he was going to prescribe something for his eyes. The sick man, cried out, "Well, sir, what have the eyes to do with the stomach?" The physician replied, "It is necessary to cure your eyes first, for had these been sound you would have seen better than have to taken such a breakfast."

#### SANSKRIT.—FIRST PAPER.

Pt. Ram Sastri Tailong

Examiner.

- 1. Explain fully the following extracts in English:-
- (1) संहितः श्रेयसी पुंसां स्वकुलैः स्वलपकौरिप । तुषेशापि परित्यक्ता न प्ररोहन्ति तरखुलाः ॥
- (2) उपकारगृहीतेन शत्रुणा शत्रुमुद्धरेत्।

पादलग्नं करस्थेन करटकेनेव करटकम् ॥

- (३) द्रिद्रान् भर कौन्तेय सा प्रयच्छेश्वरे धनम् । व्याधितस्यीषधं पथ्यं नीक्जस्य किसीषधैः ॥
- (4) बहुभिर्मू खेंसंघातैरन्योन्यपश्वृत्तिभिः। प्रच्छाद्यन्ते गुगाः सर्वे मेघेरिव दिवाकरः॥
- (5) प्राणा यथात्मनीभीष्ठा भूतानामि ते तथा। श्रात्मीपम्येन भूतेषु दयां सुर्वन्ति साधवः ॥

(a) Give the roots of गृहीतेन, उद्भोत्, and परित्यक्ताः and conjugate them in the third person of the second (preterite) (जिह्).

(b) Parse the under-lined words.

(c) Give the प्रकृति and प्रस्थय in श्रेयसी, and कोन्सेय

(d) Change the voice of the extract (4).

2. स हिर्णयक: प्राह । भी न युक्तमुक्तं भवता । यतः स्वामिनोऽनन्तरं भृत्याः । स प्राह । भद्र मदाष्रयाः सर्व एते वराका स्वकुटुस्वं परित्यच्य समागता:। तत् कथमेतावनमात्र-मपि सन्मानं न करोसि । उक्तं च—

यः सन्मानं सदा धत्ते शृंत्यानां चितिपोऽधिकम्। वित्ताभावेऽपि तं दृष्ट्वा तं त्यजन्ति न कहिंचित्॥

श्रपरं मम कदाचित् पाशभङ्गं कुर्वतस्ते दन्तभङ्गो भवति श्रथवा दुरात्मा लुव्यकः समायाति तलूनं मम नरकपात एव । उक्तं च—

सदाचारेषु भृत्येषु संतीदत्सु च यः प्रभुः। सुली स्थानरकं यात्ति परत्रेह् च सीद्ति॥

तच्छुत्वा हिरएयक: प्राह्। मो वेद्म्यहं राजधनेम्। परं मया तव परीक्षा कृता। तत्सर्वेषां पूर्वं पाणच्छेटं करियामि। भवानप्यनेन बहुकपोतपरिवारो भविष्यति। उक्तं च-

> कारुगयं संविभागध यस्य भृत्येषु सर्वदा । संभवेत्स महीपालखें लोक्यस्यापि रत्नमे ॥

(à) Translate the above extracts into English:-

State the rules of सन्धि in तच्छुत्वा, एतावन्मात्रम्, स महीपालः, स प्राह, सर्व एव and परिवारी भविष्यति.

(b) Decline भवत्. अस्मत् and पूर्व in the accusative (दितीया), dative (चतुर्था) and nominative (प्रयमा) cases.

- (c) Give the roots of आह, स्यात्, धने and सीहति.
- 3. Express in simple Sanskrit the sense of the following:
- (1) यश्वावृश्वोत्यवित्रथेन कर्मचाऋतं ब्रुवननृतं संप्रयच्छन् । तंवै मन्येत पितरं मातरं चतस्सै न द्रु ह्यं त् कृतमस्य जानन् ॥
- (2) यथैव ते गुरुंभिभावनीयास्तथा तेषां गुरवोऽप्यर्चनीया: ।
- (3) एतत्सर्वहनिर्देशेनैवमुक्तं यत्कर्तव्यं पुरुषेगोह लोके ।
  - (4) ऋगशेषोऽग्निशेषश्च व्याधिशेषस्तथैव च। पुनश्च वर्धते यस्मात्तसमञ्जेपं न कारयेत्॥
    - 4. Turn into simple prose.
  - (1) सिद्धं वा यदि वा ऽसिद्धं चित्तोत्साहोनिवेदयेत्। प्रथमं सर्वजन्तूनां तत्प्राज्ञो वित्ति नेतरः॥
  - (2) अपि मन्दत्वनापको नष्टी वापीष्टदर्शनात्। प्रायेण प्राणिनां भूयो दुःखावेगोऽधिको भवेत्॥
- (3) श्रारम्भगुर्वी चयिगी क्रमेग लघ्वी पुरा वृद्धिमती च पश्चात् । दिनस्य पूर्वार्ह्डपरार्ह्डभिना छायेव मैत्री खलसज्जनानाम् ॥
  - (a) Expound the Samasas in the under-lined words.
  - (b) Explain fully the extract (3) in English or Hindi.
  - (c) Decline पायेण and भूय: in extract (2.)
    - 5. Correct the following sentences and give reasons for your correction:—
    - (a) स्वं मम मित्रोऽस्ति ।
  - (b) महाराज्ञः चतुरः कन्यका श्रासीत्।
  - (c) रामः देवान् श्रभयं ददुः।
  - (d) कुलालः सुन्दरं घटः क्रियते
  - (e) चारै: दिवा जनानां विभेति

- 6. Expound and name the Samasas in :—
  कृतकृशोपग्रह:, देवालयकुलन्मनाम्, अन्तुपृर्गनयनः,
  and अवद्विधः
- 7. Write down the meanings of the following words:—
  कृत्तच, निसृतम्, प्रत्ययः, किंगुकः, तारः, प्रमृतम्,
  कृतान्तः, बिद्ग्धः न्यग्रीधः

#### SANSKRIT,-Second Paper.

Pt. D. N. Charravarti, M.A. ... Examiner.

1. Translate into Sanskrit:

A man was taking some fruits to his house. He carried them on his head. As he walked along the road, three or four of the fruits fell on the ground.

The man did not see them fall, so he went on. But a

poor boy saw them fall and took them up.

The boy brought the fruits to him and put them in his hand.

"You are a good boy," said the man, "Take the best you

like for yourself."

The boy took one and the man went away. A lad then came up to the boy and said, "What a fool are you not to keep all that fell."

The boy replied, "Poor though I am, I don't like to take

what is not mine own."

- 2. Translate into English:—
- ं (७) एकदा कश्चिद्राजा आगच्छन्तं हीनवेगं विणाजमेकं द्दर्भ । तेन हि वञ्चकेन कपटिवन्धुना स राजा पृष्टं छद्मना हत्त्वस्थे वने परित्यक्तः । इदानीन्तु तद्वस्थं सुहदं हुप्या स राजा करुणाविष्टः स्वमासाद्मानीय स्रोतपिवष्टं तं माद्रं पप्रच्छ,—ससे प्रभूतधने।ऽपि कथिनत्यं दुरवस्थोऽिमि? विणाग्वाच—राजन् नाधम्मेलव्धं धनं कदाचित सुसाय भवति । वश्रामहं स्वभावलुब्धस्तेन वाशिष्टमार्थं समुद्रपारं गतः । तश्र

शतगुणं बाणिज्यममूत्। तस्यादागच्छतो मम तटान्तसमीपे बहित्रं निममज्ज, धनानि च विनष्टानि । प्राणावोशेषोऽहं कथञ्चिदिहामतः। राजोवाच,—वित्तं विनष्टं, तत्र का चिन्ता। तद्धिकमपरं धनं ते दास्यामि।

- (b) प्रत्यन्ति वमुखे देवे व्यर्धे यते च पौस्खे। मनस्विनो द्रिस्य वनादन्यत् कुतः सुखम्॥
- (c) पिता ददाति सर्वस्वं पुत्रेभ्यः परितोषवान्। न तु भाग्यञ्च बुद्धिञ्च दात्ं तेनापि शकाते॥
- (d) शुचित्वं त्यागिता श्रीय्यं समानं सुखदुःखयो:। दाद्विषयं चान्रिकिश्च सत्यता च सुहृद्गुगाः॥
- (e) जनयन्त्यन्जेने हु:खं तापयन्ति बिपत्तिषु। भाहयन्ति च सम्पत्ती कथमर्था: सुखावहा॥
- (f) प्रलाघ्यः स एका सुवि मानवानां स उन्नमः सत्पुरुषः स धन्यः। यस्यार्थिनो वा शरणागता वा ' न व्यर्थकामा विमुखाः प्रयान्ति॥

#### HISTORY.

W. JESSE, ESQ., M.A. ... Examiners.

(Nine questions correctly answered will carry full marks.
Not more than nine questions are to be attempted.)

- 1. Mention the chief events, home and foreign, in the reign of Edward III.
  - 2. Give a brief sketch of the reign of Henry VII.
- 3. Write a short account of the war between the "Grand Alliance" and France, giving the causes which led to it, the battles fought, and the ultimate results.

4. What were the causes of the civil war in the reign of Charles I,? State the most important battles and their results.

5. Explain carefully:-Compurgation and Ordeal; Witanagemot; Peter's Pence; Scutage; Lollards; Divine Right.

Describe when and under what circumstances the English obtained possession of Gibraltar; Bombay; The Cape; Jamaica.

7.. Write a short account of Chandra Gupta and the

foundation of the Maurya dynasty.

8. Give a brief outline of the reign of Jahangir.

9. Sketch the rise of the Marhatta power under Sivaji.

10. Write a short account of the 1st Sikh War, giving the causes which led to it, the battles fought, and the ultimate results.

11. What do you know of the following people:-Baji Rao; Lord Dalhousie; Bairam Khan; Chait Singh; Dupleix; Malhar Rao.

12. Give the date and conditions of the following treaties, state between whom they were ratified:-

Purandar; Salbai; Bassein; Mangalore.

#### GÉOGRAPHY.

Mr. Crosse, Esq., M.A. ... ... ... ... Examiners.

Of the 12 questions sei, the candidates may answer 9. Any 8 of the 11 questions on General Physical Geography man be chosen; the last question on map-drawing is compalsory.

Define :- Watershed, Moraine, Tropic, Longitude, Crevasse, Axis of rotation.

What are ocean currents? Give the course of the Gulf Stream,

2. What, and in whose possession are: Madagascar, Vancouver, Labuan, Zanzibar, Guiana, Hayti, Singapore, Warsaw, Macao, Heligoland.

3. Give a description of the physical features of Spain,

its climate and colonial possessions.

4. Name six of the most important products of India and the part of the country in which each is chiefly produced.

What are the chief imports of India and where do they come from?

5. Give the principal divisions of North America and

the names and situations of some of its largest lakes.

6. Two persons setting out together travel all the way from Hongkong to London by sea. One goes through the Suez Canal and the other round the Cape of Good Hope. Where would they separate and what ports would each see?

7. Name any four European Nations having possessions in Africa with the name of one of the possessions of each, also name a republic and a kingdom in the same Continent.

8. Explain briefly the formation of rain, and state in

what way it affects the Earth's surface.

9. What are springs? Why do they issue from between the beds of rocks along the sides of valleys.

10. Describe a volcanic eruption and state the position

of the chief Volcanoes of Europe, Asia and America.

11. How are glaciers formed and where are the largest to be found? How do we know that they once existed in such countries as Britain where they no longer occur?

12. Draw a map of South America and shew therein the various countries, chief rivers and mountains. Lines of Longitude and Latitude should be put in as accurately as possible.

#### GEOMETRICAL DRAWING.

#### g G. T. Sparke, Esq.,

... Examiner.

Note.—All figures must be obtained by Geometrical construction only. Sketches with theoretical explanations are not marked.

Lines of construction to be left in pencil, answers only to be inked in.

1. From one end of line 3 inches long set off an angle of 75° without the aid of a protractor or scale of chords.

2. Given a circle with 3 inches diameter find the centre, and from any point  $\frac{1}{2}$  an inch outside the circle draw a line tangent to it.

3. In a rhombus, with two opposite angles 60°,, and sides 2.5 inches, draw the inscribed circle.

4. Construct an issoceles triangle with base of 3 inches, and

vertical height 4 inches, also draw the inscribed semi-circle.

Construct a scale of 10 feet to 1 inch, and to that scale, construct a rectangle 40 feet 4 inches long, and 37 feet 10 inches broad.

# ELEMENTARY PHYSICS AND CHEMISTRY.

BABU G. N. CHARRAVARTI, M.A., LL.B. ... Examiner.

(Full marks will be given for correct answers to any eight questions.)

1. How would you find the centre of gravity of a metal

plate? Describe the common balance.
2. Explain clearly why boats made of iron do not sink in water, although iron is heavier than water. Also explain why a solid piece of iron sinks in water, but floats in mercury.

3. What is "Sound?" Would you hear the sound of thunder if the earth had no atmosphere? Why is there generally an interval between the flash of lightning and the sound of thunder? Why does the roar of the thunder last

longer in mountainous regions than in the plains?

4. What do you understand by 'latent heat of water' and how would you find it? Why does water boil at a lower temperature on the top of mountains them in the plains?

5. What is a 'spectrum?' How would you produce a solar spectrum? Explain clearly the property of light which

renders its production possible.

6. Describe the 'gold-leaf electroscope' and explain its working, noting the stages at which its action depends upon the principle of 'electrical induction.' What is the difference between a 'magnet' and an 'electro-magnet!'

Name any gas (1) that supports combustion, (2) that burns and (3) that neither supports combustion nor burns itself. Describe an apparatus to show the combustion of a

gas.

8. How would you determine the composition of pure water? Ordinarily spring or well water leaves a deposit at the bottom of the kettle after it is boiled. Why?

9. What is the difference between 'impurities in solution' and 'impurities in suspension?' How would you get

rid of each? What are 'crystals?'

10. Distinguish between 'elements,' 'compounds' and, 'mixtures.' Under which head would you place the following:—(1) Gunpowder, (2) brass, (3) air, (4) common salt, (5) iron, (6) water.

What substances would you require to prepare 'nitric acid?' How much of these substances would be necessary to get 15lbs. of 'nitric acid?' Describe the important properties of the acid. Define 'salts.'

#### BOOK-KEEPING.

#### BABU RAM KUMAR SIRKAR,

... Examiner.

Under what heads may the Property of persons in business be comprised?

2. What is the use of the Invoice-Book and why is it called

Invoice-Book?

3. On which side of a Cash-Book must the balance always fall and why?

4. What is Book-Keeping by Single Entry?

5. Describe the method of posting the Invoice-Book into the Ledger, under Double Entry, when the merchant wishes to know merely the total amount of goods purchased and sold and the profit on the whole.

Describe the method of posting the Bills Payable into the

Ledger, under Double Entry.

7. From which books do you obtain the information necessary to ascertain the whole amount of goods bought and sold by a merchant during the year or any given time ?

8. Why is the Received called the Dr. side of the Cash-Book?

9. At the end of every month after all the books have been posted, how do you ascertain that each entry in the Ledger has been posted correctly?

10. If a person who is owing an account becomes insolvent and pays a composition, how is the balance still due treated in the accounts?

- 11. What is the meaning of the term "Liabilities?"
- 12. Construct a Day-Book, an Invoice-Book, a Cash-Book, a Ledger and a Trial Balance sheet under Double Entry from the following transactions:—

		Rs.	n.	p.
Janry.		000	<i>c</i> .	^
T	with 2,	999	0	0
Do.	4th, Bought from J. Watson, Calentin-			
	5 Doz. Port Wine, 30/ 150 0 0			•
	2 do. Brandy, 42/ 81 0 0			
	Packing and carriage 2 8 0			_
•		236	-8	0
Do.	7th, Bought Goods for cash	25	- }	()
Do.	10th, Paid for Shop Furniture	45		0
Do.	12th, Sold Goods for each	17	8	0
Do.	15th, Bought from W. Smith, Calcutta-			
	12 Reams Foolscape			
	Paper, 2-8-0 30 0 0			
	15 Reams Bally Pa-			
	pers 2-0-0 30 0 0			
,	Packing and Rail-			
	way freight 16 8 0			
•	Gr-F775-Automaty-terminology-spage	76	8	0
Do.	20th, Paid into the Bank of Bengal, Allah-	•	•	
	abad 1,	000	0	0
Do.	23rd, Sold to C. Alexander Agra -		**	•
	6 Bottles Brandy 4-8-0 27 0 0			
	6 do. Port Wine, 3-4-0 19 8 0			
	Packing 0 8 0			
:		47	0	0
Ď٥.	25th, Drawn from the Bank of Bangal,	11 4	.,	(.)
	(11.1)	250	0	0
Do.	26th, Paid Trade expenses, salaries		0	Ö
Do.	27th, Sold to D. Gibson, Campore—	O	0	U
, 200.	4 Reams Foolscap Paper, 3-8 0,	1 1	Δ.	Λ
Do.		14	0	0
370.		221	(1)	9
Do.	Discount allowed by him	11	1:5	13
Do.	29th, Bought Goods for each	10	1	0
٠,٥٠	31st, Paid Trade Expenses, Rent for January	15	Ō	O

## POLITICAL ECONOMY.

A. H. PIRIE, Esq.,

Examiner.

N.B.—Correct answer to any five questions will carry full marks.

- 1. State the three requisites for the production of wealth; and classify under each head the following: A Railway Share; the business ability of a factory manager; a coalmine; the work of a *dhobi*; the stock of a *bannia*'s shop; a spring of mineral water; a sewing-machine; a tank well stocked with fish.
  - 2. (a) State and illustrate the four advantages of division of labour pointed out by Adam Smith.

(b) Point out the complex co-operation of labour required in the construction of a railway.

3. (a) Define Capital; and show that it is a requisite for Agricultural production and for manufactured goods.

(b) Distinguish between Circulating and Fixed Capi-

tal, giving examples. .

4. (a) State the two functions of money; and enumerate the qualities that should be possessed by the substance selected as money.

(b) Is a ten-rupee note money? Why does the Indian Government wish to replace the rupee by a

gold standard?

duce from it the corollaries, (1) that rent does not enter into expenses of production, and (2) that the rent of land does not influence the price of Agricultural produce.

(b) Can you give any reasons for the fact that the Indian cultivator actually does, in opposition to the above theory, calculate the rent of the land as part of the price at which he is willing to sell

his grain?

6. (a) Give the substance of the doctrine of Malthus on Population. Illustrate this by pointing out the probable effect. (1) of early marriages in India.

and (2) of the work of Government in prevent-

ing the ravages of famine and plague,

(b) State the law of diminishing productiveness; and show how it affects the profits of farmers and the wages of agricultural labourers in an old country.

7. (a) Explain the nature of a Trades-Union; and state the real cause of strikes and lock-outs. What is the ultimate effect of an excessive rise of wages

at the expense of profits?

(b) Distinguish between Protection and Free-trade, and show the effect of the former on the price of commodities. Would the Indian Government be justified in encouraging the manufacture of cotton cloth in this country by imposing a leavy customs duty on imported cotton cloth?

8. State Adam Smith's four cannons of taxation. Apply these to criticise the validity of the following Indian taxes:—The Income-tax: the Land Revenue; the Octroi duties levied by Municipalities. Is the last named a direct or an indirect tax?

# ENGLISH.—FIRST PAPER.

1. Give in your own words the substance of the following passage and answer the questions at the end:—

"Strange to say I could not conquer my dislike to Mr. Masterman. I had nourished the feeling too long. I could not bear that my mother should be under obligations to him: it hurt my foolish pride young as I then was. Besides as I was put to a better school I was deprived of all my former enjoyments. I became discontented and un happy merely because I was obliged to pay attention to my learning and could no longer have my own way."

(a) How is a 'feeling of dislike' 'nourished' and how can you try to 'conquer' it?

- (b) Give an instance of what is meant by saying that a person is 'under an obligation' to another.
- (c) What is meant by 'foolish pride?' Is there any kind of pride which is not foolish? If so, give an instance.
- 2. Describe in your own words the scene depicted in the following passage. Do not keep close to the original.

"And all things stayed around and listened: the gulls sat in white lines along the rocks: on the beach great seals lay basking and kept time with lazy heads: while silver shoals of fish came up to hearken and whispered as they broke the shining calm. The wind overhead hushed his whistling as he shepherded his clouds towards the west: and the clouds stood in mid-blue and listened dreaming like a flock of sheep."

- 3. Explain the meaning of the following words and phrases printed in thick type and use the word or phrase in another sentence of your own construction with a different meaning. Where the words are used metaphorically use them with their literal meanings in your own sentences:—
  - $\cdot$ (a) They had a commanding view of the bay
  - (b) like hounds that draw upon a deer
  - (c) his mighty limbs were loosed
  - (d) He sleeps among the kites and crows
    - (e) These rocks by custom turn to beds of down
    - (f) The Fathers grind the low.
  - (g) the heroes fed her path with pine-trunks
    - (h) Stout Argo ground beneath their stroke
  - (i) honour forms the social temper here.
- 4. In the following extracts point out clearly and fully all the points of comparison in each simile. Do not paraphrase the passages:—
  - (a) And like a horse unbroken
    When first he feels the rein,
    The furious river struggled hard,
    And tossed his tawny mane,
    And burst the curb, and bounded

Rejoicing to be free, And whirling down, in fierce career. Battlement, and plank, and pier, Rushed headlong to the sea.

(b) Meanwhile the Tuscan ermy, Right glorious to behold, Came flashing back the noonday light, Rank behind rank, like surges bright Of a broad sea of gold.

(c) Each nobler aim, represt by long control.

Now sinks at last, or feebly many the goal:

While low delights, succeeding fist behind,

In happier meanness occupy the mind:

As in those domes, where Casars once held sway.

Defaced by time and tottering in decay,

There in the ruin, heedless of the dead,

The shelter-seeking peasant builds his shed:

And wondering man could want the larger pile.

5. Answer the questions on the following extract:—
For praise too dearly loved, or warmly sought.
Enfeebles all internal strength of thought:
And the weak soul, within itself unblest,
Leans for all pleasure on another's breast.

Exults, and owns his cottage with a smile.

What is meant by saying that a person it imblest within and why is such a person "week?" Here does a torquest desire of praise cause this 'weakness' and have the site inferble all internal strength of thought?"

6. Answer one only of the following:

(a) Give in your own words the story of Horatius and his defence of the bridge.

(b) Give the substance of what Goldenith regarding

the character of the French.

(c) Give a short account of Javon's correlator the Golden Fleece, and the various dangers he encountered in finding and bringing it back.

7. Give in your own words the substance of the following passages in such a way as to show that you fully understand

the meaning and can express it in good English. Do not merely substitude other words and phrases for which no marks will be awarded.

Α.

The North American Indian lives in a state of perpetual hostility and risk. Surrounded by hostile tribes, whose mode of warfare is by ambush and surprisal, he is always prepared for fight, and lives with his weapons in his hand. As the ship careers in fearful singleness through the solitudes of ocean; as the bird mingles among clouds and storms, and wings its way, a mere speck, across the pathless fields of air;—so the Indian holds his course, silent, solitary, but undaunted, through the boundless bosom of the wilderness. He traverses vast forests, exposed to the hazards of lonely sickness, of lurking enemies and pining famine. His very subsistence is snatched from the midst of toil and peril. He gains his food by the hardships and dangers of the chase; he wraps himself in the spoils of the bear, the panther, and the buffalo, and sleeps among the thunders of the cataract.

Never stoops the soaring vulture
On his quarry in the desert,
On the sick and wounded bison,
But another vulture, watching
From his high aerial look-out,
Sees the downward plunge, and follows;
And a third pursues the second,
Coming from the invisible either,
First a speck and then a vulture,
Till the air is dark with pinions.
So disasters come not singly:

But as if they watched and waited;
Scanning one another's motions,
When the first descends, the other's
Follow, follow, gathering flock wise
Round their victim, sick and wounded,
First a shadow, then a sorrow,
Till the air is dark with anguish.

#### ENGLISH.—SECOND PAPER.

#### liram mar.

1. (a) Parse fully the words in thick type in the following sentence:-

The work is difficult, but you can but do your best and if you work well, you cannot but derive some benefit from your exertions.

(b) Parse fully all the words ending in-ing in the following sentences:-

(i) Laughing is contagious.

(ii) He lent me fishing rod.

(iii) "I am going a-milking, Sir," she said.

(iv) He is not fond of writing letters.

2. Correct the following sentences where necessary, giving reasons for any corrections you make,

(a) When Alexander invaded India?

(b) Though he is not very clever, but he is ambitious.

(c) He told that "I am eighteen years of age,"

- (d) He said that under any circumstances he will not be long away from home.
- Insert the necessary prepositions in the following sentences :--

(a) His servant is—the gate, waiting—a reply—his letter.

(b) He was seated—his table, thinking—the reply be was to send—a letter.

(c) The theif was struck—a stick—the policeman.

- (d) Provide yourself—the books necessary—the eneming examination.
- 4. Explain the following idiomatic expression::-

(a) He shall answer for his crime with his life.

(b) It is a very short-sighted policy.

- (c) He took up the cudgels in behalf of his frient.
- (d) It was neck or nothing with him.
- (c) He improves upon acquaintative.
- 5. Distinguish carefully between the following pairs of words and write sentences illustrating their correct the :-

elder and older, human and humane.

artist and artizan, artful and artificial, practice and practise, capture and captivate.

6. (a) Analyse fully in tabular form:—

One would imagine that, when a man is on his trial for a serious crime, he would have a tendency to forget his personal appearance, but strangely enough this is not the case, as some malefactors have exhibited quite a morbid vanity as to their appearance in the dock.

(b) Construct a Complex Sentence containing one principal sentence, one adjectival subordinate clause and one noun subordinate clause.

Analyse fully the sentence thus constructed.

7. (a) Put into Indirect Speech.

"I am tired of men," said the princess, "and of suitors, and of princes." "I will go to Zenda and ride in the forest all alone."

"You will meet men even there," said the king

"How do you know that sire?" she asked with a smile.

"At least I have found it impossible to avoid meeting women any where," replied the king.

"I do not think it is the same thing," observed the

princess smiling again.

(b) Write down the words which the princess would use in repeating the above conversation to a third person.

#### ENGLISH.—TRANSLATION FROM URDU.

 $Translate\ into\ English:$ —

شیر کو پیدل مارفا بہت مشکل کام کے اور اسمیس جان كا خوت هـ - كچه آدمي تو يه كرتے هيس كه هاتهي پر جنگل میں جاتے ھیں - اور جب شیر کو آتا ھوا دیکھتے ھیں تو ھاتھی سے اوتر کر ایک ھاتہ میں ایک بڑی تھال اور دوسرے ھاتہ میں ایک بڑی تلوار یا کتار لیکر سامنے گھتنوں کے بل بینتہ جاتے ہیں۔شیر اونپر جہپتنا ہے پروے اوسکے پنجہ کی چوت کر تھال سے بھاکو اوسکے سینہ میں کتار مار کر اوسکو وهیس کرا دیتے هیں۔ بعض دابیر آدمی ایسا بھی کرتے دیں کہ شیر کو بیالوں سے مار کر اپنے پاس دی نہیں آنَّے دیتے۔ اور جب رہ پاس آجاتا ہے تو اپنے جوتوں سے جنکے آگے کے جانب تین کتار لگے رہتے تھوکریں سار کر اوسکو مار دالتے هیں۔کہتے هیں که ایک راجه نے ایک وقت لارة رپی کے سامنے ایک بڑی تعجب انگیز دلیری دکھائی تھی۔ لارت صاحب اور اونکے ساتھی لوگ ھاتھیوں اور کھورروں پر سوار ھوکر راجه صاحب کے سآتھ ایک گھنے جنگل میں گھسے۔ لارة ماحب ایک هاتی کے هودے میں جسپر اوقے کا پنجرہ نگا شرا تھا بیتہ ہے تھے۔ بکریاں چھوردی گئیں اونکی بو پاکر شیر اپنی جگہ سے نکاڈ - راجہ صاحب زرع پہنے ہوئے ایک ایک هاتب میں بهالا اور دوسرے هاته میں تهال لئے هوئے آگے بردے ۔ اونکے دونوں جوتوں کے آگے کے جانب ایک ایک تیز کتآر لئا هوا تھا۔ شیر کو دیکھتے هي آدسي چلانے اور داتی چنگهارنے اور گهورے هنهنانے لکے - یہ بہادر راجه بکریوں کے پاس جاکر کوڑے ہوئے - شیر جهپتا پر راجه نے بھائے سے مار مار کر اوسے اپنے پاس پہونچنے ندیا ۔ شیر كبيي بادَّيْن كبيي داهنے جُانب أَنَا تَيَا - أَنْتِ هِي مِين راجد نے موقع پاکو شیر کی چھاتی میں ایسی تھرکر ساری که کتّار اوسمیں گیس گیا آور شیر اوچھل کو چت گو پڑا اور مرکیا ۔ سب لوگ ایک هي زبان سے راجه کي بهالاري کو سراهنے لگے -

T3.

رقت ریل سے بھی زیادہ بھاگنے والا۔ ہوا سے بڑھکر اور نے ا رالا ہے۔ ارر ایسا۔ دیے۔ پاؤں نکل جاتا ہے کہ کسیکو جات نہیں پرتا - سویرا هوا سوکو اوتھے روز مرا کے کام سے نیتے۔
کچہہ کھایا پیا پھر دن چڑھگیا پھر گھڑی دو گھڑی ادهو
اودهو اوتھے بیتھے کچہ سبق یاد کیا کہ دس بھنے کو آ۔
مکتب جانیکو دیو هوتی هے جھت بت کھایا پیا مکتب گئے۔
وهاں سبق لیا چلو دن تھالا شام هوئی گھر آئے تو کھانیکی
سوجھی جب پیت بھرا تو سستی آئی ۔ لیتے تو آنکھیں
جھپکیں سویرا هو گیا ۔ ایسے هی دن ختم هوئے جاتے هیں۔
ایک شاعر نے کہا هے۔
میدے هوتی هے شام هوتی هے \* عہر یوں هی تہام هوتی هے

Translate from Hindi into English:-

A.

व्याघ्र की पैद्र मारना बड़ा कित कान है छोर उसमें जान की जीखिल है। कुछ आदमी ता यह करते हैं कि हाथी पर जंगल में जाते हैं और जब व्याघ्र की आता हुआ देखते हैं तो हाथी से उतर कर एक हाथ में बड़ी ढाल और दूसरे हाथ में बड़ी तलवार या कटार लेकर जानने खुटनें। के बल बैठ जाते हैं। व्याघ्र उन पर कपटता है पर वे उसके पंजी की चीट की ढाल से बचा कर उसके खाती में कटार मार कर उसकी वहीं गिरा देते हैं। के इकी दे साह भी कहार प्रमा कर उसकी वहीं गिरा देते हैं। के इकी दे साह भी महा प्रमा कर अपने पास नहीं आने देते और जब बह पास आ जाता है तब अपने जूतों से जिनके आगे पैना कटार लगा रहता है उति सार कर उसकी मार हालते हैं।

कहते हैं कि एक राजा ने एक समय लार्ड रिपन के सामने अद्भुत पराक्रम दिखाया था। लाट साहब और उनके साथी हाथियों और चिद्धां पर सवार है। कर राजा साहेब के साथ घने जङ्गल में पहुंचे। लाट साह्य हाथी के हैं। दे पर जिसमें लीहे का पींजरा लगा हुआ या बेटे ये। वकरियां छोड़ दिई गईं और उनकी बास पाकर व्याव अपनी जगह से निकला। राजा साहब कवच पहने एक हाथ में भाला और दूसरे हाथ में ढाल लिये आगे बढ़े। उनकी दोनों जूतों के आगे एक २ पेना कटार लगा हुआ था। व्याव का देखते ही आदमी चिह्नाने हाथी चिवाड़ने और घोड़े हिनहिनाने लगे। शूरवीर राजा वकरियों के पास जाकर खहें हुए। व्याव कपटा पर राजा ने भाले से मार २ कर उसे पहुंचने न दिया। व्याव कभी बाई कभी दहने और आता था। इतने ही में राजा ने अवसर पाकर व्याव के छाती में ऐसी टोकर नारी कि कटार उसमें घुस गया। और व्याव उछल कर चित्त गिर पड़ा। और नर गया।

सव लोग एक मुंह से राजा की वीरता की सराहने लगे॥

3.

समय रेल से श्रिधिक भागने वाला है। हवा से वह कर उड़ने वाला है श्रीर ऐसा द्वे पांव निकल जाता है कि, किसी की जान नहीं पड़ता है। सबेरा हुआ सेकर उठे नित्य कर्म से निपटे कुछ खाया पीया पहर दिन चढ़ श्राया। फिर घड़ी दो घड़ी इधर उधर उठे बंठे कुछ पाठ याद किया कि दस वजने की श्राये। पाठणाला जाने की देर होती है। भट पट खाया पिया पाठणाला गये वहां पाठ पड़ा चली दिन ढला सांभ हुई; घर श्राये तो फिर खाने की मृसी। जथ पेट भरा तो श्रालस लगा लेटे तो श्रांसे कपकी सबेरा है। एया। ऐसे ही दिन बीतते चले जाते हैं। एक कबिने कहा है "अवह होती है शाम होती है। उम्र योहीं तमान होती है"॥

#### MATHEMATICS.—FIRST PAPER.

1. State the rules for multiplication and division of decimal fractions.

Assuming that the surface of a sphere is 3.1416 times the square of its diameter, and that the earth is a sphere whose diameter is 8,000 miles, find what fraction of the whole surface of the earth is the area of India which is 1,350,000 square miles. Express your result as a decimal fraction.

- 2. What are circulating decimals? Distinguish between pure and mixed circulating decimals.
  - (a) Add together  $\frac{1}{6}$ ,  $\frac{1}{30}$ ,  $\frac{1}{42}$ ,  $\frac{5}{66}$  and express the sum as a mixed circulating decimal.

(b) Reduce 
$$0416 \times \frac{142857}{\left(\frac{5}{12} + \frac{3}{8}\right) \times 40}$$
 of Rs. 8, 5 as.

to the fraction of 1 anna.

3. (a) Find, by Practice, the price of 100 bags of Rosa sugar, each weighing 4 seers 2 powas and 3 chataks, at 6 as. 9 p. per seer.

(b) Find the square root of 10.02 to three places of

decimals.

4. What sum of money will amount to Rs. 3,528 in 2 years at 5 per cent, compound interest? and what will it amount to in two more years?

- 5. What monthly income will be derived from the investment of one *lac* of rupees in the  $3\frac{1}{2}$  per cent. Government of India paper at  $105\frac{13}{16}$ ?
- 6. Divide  $(1-x^2)(1-y^2)(1-z^2) (x+yz)(y+xz)(z+xy)$ by  $1-x^2-y^2-z^2-2xyz$  and extract the square root of 1+(x+1)(x+2)(x+3)(x+4).
  - 7. Simplify:—

$$\frac{(x-a)^2}{(a-b)(a-c)} + \frac{(x-b)^2}{(b-a)(b-c)} + \frac{(x-c)^2}{(c-a)(c-b)}.$$

8. The expression ax+by is equal to 10 when a=2 and y=3 and it is equal to 23 when x=3 and y=2, a and b being constants; find a and b.

Solve :-

$$\frac{(x+a)(x+b)}{(x+c)(x+d)} = \frac{x-c-d}{x-a-b}$$

9.  $a \cdot b$ , c : d, e : f, &c., are m equal ratios: prove that each of them is equal to

$$\sqrt[n]{\left(\frac{pa^{\mathbf{n}}+qc^{\mathbf{n}}+rc^{\mathbf{n}}+\cdots}{pb^{\mathbf{n}}+qd^{\mathbf{n}}+rf^{\mathbf{n}}+\cdots}\right)} \text{ and also to}$$

$$\sqrt[m]{\frac{ace....}{bdf....}}$$
, where  $n,p,q,r...$  are any quantities

whatever.

10. A's present age is to B's present age as 8:7;27 years ago their ages were as 5:4. Find their present ages.

#### MATHEMATICS.—Second Paper.

1. (a) If one straight line stand upon another straight line the adjacent angles shall be either two right angles or together equal to two right angles.

(b) The internal and external bisectors of an angle

are at right angles to one another.

2. (a) The three angles of any triangle are together equal to two right angles.

(b) Find the magnitude of each angle of a regular

polygon of n sides,

- 3, ABC is a triangle, the angle ABC being an obtaining angle. AD is the perpendicular from A on BC produced. Prove that the square on AB it equal to the squares on AC, CB, together with twice the rectangle BC, CD.
  - 4. (a) The opposite angles of any quadrilateral inscribed in a circle are together equal to two right angles,

- (b) A circle described upon the hypotenuse of a right angled triangle as diameter, passes through the opposite angular point.
- Circumscribe a circle about any regular polygon.
- (a) Find in square feet the area of a square the diagonal of which is 7 yds. 1 ft.
  - (b) A plank 15 in. wide is placed against the top of a wall 8 ft. high, while the other end rests on the ground 6 ft. from the wall. Find the area of the plank.
- · 7. (a) The diagonals of a rhombus are 4 ft. and 1 ft. 2 in. Find the sides and the area.
  - (b) Find the area of the quadrilateral ABCD, given AB = 30 in., BC = 17 in., CD = 25 in., DA = 28 in.,and BD = 26 in.
  - (a) The driving wheel of a locomotive is 5 ft. in diameter and makes 168 revolutions a minute. At what rate is the train travelling?
  - Draw a plan and calculate the area of a field from the 9: following notes (measurements in links):-

	to D	
, 1	1675	, ,
	1380	500 to C
to E 250	1200	
	1040	200 to B.
to F 850	. 900	
$\mathbf{From}$	A	go North,

#### ARABIC.—FIRST PAPER.

1. Translate the following into English:

روى الاصمعي أنه قال بينا رجعت عن الحج بعد أن قضيت مناسك العبج والتبج - وجبت المفاوز والفيافي - اذا أمسيت في بادية من البواتي - قلها حان صلواة الهفرب توضأت واتيت الني مسجد كان في تلك البادية - فرأيت قوما يتهيأون مُلصَلواً لا - فقام الأمام يصلي فقرأ انا ارسلنا نوحا الى قومه -و ارتبع عليه - فنجعل يردده ويقول انا ارسلنا نوحا الى قومه- فقال اعرابي من وزادًه و هو قادّم يصلي يا هذ أن لم يذهب نوح فارسل غيرا «

2. (a) Write out carefully the above passage with

vowel-marks.

(b) What do you understand by the following? حج - صلوات - وضو - مسجد - منسک -

(c) Distinguish between:-

صلواة المغرب - صلواة الله - علواة الرسول - علواة العاجة صلواة الناس على الرسول -

3. Translate the following into English:—

الناس من جهة التبثال اكفاء «ابوهسم آدم و الام حسواء انها اميات الناس اوعية «مستودعات والاحشاب آباء فان يكن لهم في اصلهم شرت «يفاخرون به فالطين والهاء وان اتيت بفخر من ذوي نسب «فان نسبتنا جودو علياء لا فضل الالاهل العلم انهم «علي الهدي لهن استهدي ادلاء وقيمة الهرء ماقد كان يحسنه «والجاهلون لاهل العلم اعداء فقم بعلم ولا تبغي له بدلا «فالناس موتي واهل العلم احياء

4. Write out a short biography of the author of the

poetical passage.

5. Write out the plurals of the singulars and the singulars of the plurals as the case may be of the following:—

مفاوز - فيافي - بوالدي - احساب - اعداء - إحداء - فاس حاجي - اعرابي - ام - جود - اصل ـ اب - جواد --: Distinguish between --:

فتريه - ضهه - كسرة نصب - جر - رفع -

and explain them with examples.

7. Write out the changes the following words have undergone.

ق - بعن - قال - قاب - داع - قلن - مبيع - قلق -

8. Write out, with vowel-marks, the names of the days of the week and those of the lunar months in Arabic.

#### ARABIC.—SECOND PAPER.

N.B.—Give vowel-marks to every Arabic word you write in your answers; and write the numbers in words as well as in figures.

#### 1. Translate into Arabic:

Every new thing is tasteful. A wise enemy is better than an ignorant friend. The troops returned into the camp loaded with spoils. She has three sons and six daughters. He who obeys his lusts is not a free man. Dutifulness towards parents is the foundation of all virtues. The golden ring, that you gave me, has been stolen. When do you intend to go to your native "country? Both the men came to me laughing. We saw both the women taking their food. All the men, women, and children were killed in the battle. My eldest son was born on the twentyfifth of the month of Shawwal, in the year one thousand two hundred and ninety-five A. H. Was your horse sold in the market on Monday? Give me the book that you showed me yesterday. If you would have a thing kept secret, never tell it to anyone. I gave your father three dirhams to buy a pair of shoes for me. Your sister gave me a handkerchief as a present. Do not waste your time in idleness. A rich man without charity is like a river without water.

#### 2. Translate into English:

أن الله يفعل ما يريد اياك نعبه و اياك نستعين الهدنا الصراطالهستقيم عش ماشتت فانك ميت واحبب ماشتت فانك مين واحبب ماشتت فانك مجزي به اعلم المشتت فانك مجزي به اعلم ايها الانسان انك مخلوق - ولك خالق - وهو خالق للعالم و جهيع مافي العالم - و انه واحد \* ما شاء الله كان و مالم يشا لم يكن \* من حافظ علي الصلواة كانت له نورا و برهانا و نجاة من النار \* ان اجاء الاجل فرق بين الروح و الجسد \* ان مثال الدنيا كهسا فر طريق اوله الههد واخرة اللحد - و فيها بينها منازل معدودة \* سئل بعض الغلاسفة - من الذي لاعيب

فيه - فقال الذي لا يهوت «كل شئي تبدو صغيرا ثم يكبرالا الهصيبة فانها تبدو كبيرة ثم تصغر «راحة الجسم في قلة الطعام - و راحة القلب في قلة الاهتهام و راحة اللسان في قلة الكلام « اذا خرجت الكلمة من القلب دخلت في القلب و و اذا خرجت من اللسان لم تتجاوز الآذان - اعلم ان من خاف الله خاف منه كل شئي - و من لم يخف الله خاف من كل شئي «

#### PERSIAN.—First Paper.

1. Translate into English:—

و آن موضع را قبور الشهدا گویند پس ما دوروز به مدینه مقام کردیم و چون وقت تنگ بود برفتیم - را ه سوی مشرق بود بدو منزل از مدینه کو ه بود و تنگها یے چون در ه کو ه آن را جحفه سے گفتند و آن میقات مغرب و شام مصراست و گویند یک سال حجاج آنجا فرود آمده بودند با خلقے بسیار فالا سیلی در آمد و ایشانرا هلاک کرد و آن را بدین سبب خعفه نام کردند و میان مکه و مدینه صد فرسنگ باشد اما سنگ است و ما به هشت روز رفتیم یکشنبه ششم نی الحجه به مکه رسیدیم به باب العفا فرود آمدیم و این سال به مکه قحط بود چهار من نان به یک دینار نیشا پوری بود و مجاورین از مکه میرفتند و از هیچ جا حاج نیامده بود روز چهار شنبه به باری حق سبحانه تعالی به عرفات حج بروز چهار شنبه به باری حق سبحانه تعالی به عرفات حج بگذاردیم-

2. (a) Point out Arabic words in the above extract and give their singular or plural as the case may be.

(c) Write the names of the days of the week and month of the year in Persian (solar as well as lunar.)

3. Translate into English, explaining the allusions contained therein.

بُوخوان عُمچوعاله ما راصلاز دند اول صلا به سلسلهٔ انبیا زدند فوبت به اولیا چورسید آسها ن طپید تزان ضربتی که برسر شیرخدازدند پُس آتش زاخگر الهاس ریزها «افروختند و برحسن مجتبی زدند و آنگه سراد قے که ملک محرمش نبود «کندند آزمدینه و درکر بلازدند و زتیشهٔ ستیز «در آن دشت کوفیان «بس نخله از گلشن آل عبازدند

4. Who are called آل عبا and why? Answer in Persian.

(a) Give the derivations of the following words:
 \* تاستین – آستین – انگشتری – خارو – چوگان \*

(b) Where is the sign of اضافت dispensed with in Persian?

(c) Write six infinitives which are used both transitively as well as intransitively, with examples,

6. Translate into English:—

آن قصر که بهرام درو جا گرفت «روبه بچه کردوشیر آرام گرفت فهرام که گور مے گرفتے دائم «امروز نگرکه گور بهرام گرفت بیگانه اگروفاکندخویش منست «ورخویش جفاکند بداندیش منست گرزهر موافقت کند تریاک است «ورنوش مخالفت کندنیش منست

7. Name the authors of the extracts in the third and the sixth questions, and write in Persian a short account of any one of them.

8. Recite from memory five Persian couplets, other than those contained in this paper, and translate them into English.

#### PERSIAN.—SECOND PAPER.

1. Translate the following passages into Persian:

Α.

در ملک چین استعمال بادزن بسیار متعارف است نحویکه هیپ کس را جایز و روا نیست که از خانه یے بادزن بیرون

آید اگرچه هوا سرد باشد این عبل را بیشتر ازبراے زینت و بزرگی می کنند نه از براے ضرورت ـ دستهٔ بادن را از اقسام چیزها میسازند مثلا از نی و چوب و دندان فیل و آبنوس ـ و اصل بادن را از کاغذ و ابریشم و از گیاها خوشبو می کنند و بر دسته نصب می نبایند ـ و بادن مردم اکابر و اسرا از کاغذ سفید زر افشان است هرگاه خواهند آنها را می پیچند و هرگاه خواهند و امیکنند و در آنها اکثر اشمار و نکات سخن ها می نگارند - و نیز متعارف است که بطریق سوغات و هدیه برائے یکدیگر بادن میفوستند و این نشان دوستی هدیه برائے یکدیگر بادن میفوستند و این نشان دوستی و اخلاص است د

#### $\mathbf{B}$

مردے کردستانی در شہائی امریکا شکارے کردہ در منزل خود بديوار آويخته از پيء کار رفته بود - در سرا جمت بخانه شکار را نیافت - پس از ملاحظات بسیار بے بجائے قدم دزد يافته با ثرش روان شد بطرت جنگل - درميان درختان با چند کس ملاقی شده پرسید که شها ندیدید مرد کوتاه قد سفید يوست سألخورده را كه تفنك كوتاهي داشت و سكي كوچك کوتا م به عقبش روان بود مهه یکزبان گفتند آرے دیدم كُفْت چنين شخصي باين صفات شكار مرا برده - همه انگشت هیرت بدندان گزیّدند و خواهش نهوهند که بگوید چسان آن کس را بآن مفات یافته بود و حال آنکه چنان می نهود که تُنْ أورا نديد ، بود ـ مرد جواب داد كوتاهم قامتش را بدان فِهمِيدم كه تودهٔ سنگے فراهم كرده بود چه جائے كه آن شنار آوینفته بود قدرے بلند بود از زمین - و پیریش را از آن دانستم که قدمهایش را نزدیک یکدیگر گذاشته بود و سفیدی پوستش را معلوم کردم بآنکه انگشتان پاهایش را در را و رفت کم نهاده بود و حال آنکه ساکنان انتیا را

این خصلت نیست و کوتاهی تفنگش را چنان دریافتم که چون به تنهٔ درختی گذارده بود از سرآن تفنگ نشانے بدرخت مانده بود و کوچکی سگش ظاهر گشت به نشان پایش - و اینکه آن سگ دم کوتاه بود واضح گشت مرا از مالیدنش بر خاک هر کجا که صاحبش ایستاده بود و آن حیوان برزمین نشسته بود \*

#### 2. Translate into Persian the following:—

The diet of the Arabian tribes in Persia is more frugal than that of the other inhabitants of the kingdom. It consists chiefly of dates. But what others would consider a hardship, habit, with them, has converted into an enjoyment and the Arab deems no food more delightful than that upon which he lives. years ago, a woman belonging to one of the Arab families settled at Abushahr, had gone to England with the children of the British Resident at that place. When she returned all gathered round her to gratify their curiosity about England. you find there?' 'Is it a fine country?' 'Are the people richare they happy?' Shew answered, 'the country is like a garden, the people are rich, have fine clothes, horses, houses, and carriages, and are said to be very wise and happy.' Her audience were filled with envy of the English and a gloom spread over them which showed discontent at their own condition. They were departing with this sentiment, when the woman happened to say; 'England certainly wants one thing.' 'What is that,' said the Arabs eagerly. 'There is not a single date-tree in the whole country!' 'Are you sure,' was the general exclamation. 'Positive' said the old nurse. looked for nothing else all the time I was there, but I looked in vain.' This information produced an instantaneous change of feeling among the Arabs, it was pity not envy, that now filled their hearts; and they went away wondering how men could live in a country where there were no date-trees?

### SANSKRIT.—FIRST PAPER.

1. यथा द्या कीन पाईन न रथस्य गतिभंबेत्। तथा पुरुषकारेन विना दैवं न सिध्यति॥ चलत्येकेन पादेन तिष्ठत्येकेन बुहिमान्। नाउश्वनीस्य परं स्थानं पूर्वनायतनं त्यजेत्॥

नार्जारोऽवद्त् । जहनन गङ्गतीरे नित्यकाची निरा-भिषाणी क्रस्त्रचेश चान्द्राचणव्रतमाचरंकिष्ठानि । युकांश धर्मकाण् सम विद्यासमूषयः पित्रणः मर्वे मर्वद्। मनाग्रे प्रस्तुवन्ति । तती भवव्यो विद्यावयीवृद्धेन्यो धरमंत्रोतुमद्य-मत्रागतः। भवन्तप्रदेषुणा धर्मका यन् माणतिधिं हन्तुमुद्यताः। गहरषस्यैष च धर्नः ।

यद्यध्यकंनास्ति तदा श्रीतिद्यचनेनापि ताघद्तियिः पूज्यः । तथा चोक्तम् ।

ख्णानि स्थित्रद्वं वाष् चतुर्घो च नृनृता । एतान्यपि सतां गेहे नोिक्ययन्ते कदाचन ॥

- (a) Translate the above extract into English:---
- (b) Decline सन्, याच्, भीति, छंन् and यदस् in the accountive (दिनीया), locative (सप्तमी), dative (प्रमुधी), genitive (प्रमा) and nominative (प्रमा) cases respectively.
  - (c) Parse the underlined words.
  - (d) Conjugate ছ. हन्, হন রা and বহ in the second fiture (কুহ্), imperative (ক্রাহ্), present tonce (ক্রাহ্) first preterite (কর্) and second preterite (ক্রিহ্) respectively.
- 2. Explain in Sanskrit.
  - (1) श्रत्यच्छेना विषद्धेन इन्तीमा तिचार्या । अन्तर्भिनेन खंगारंगीकिकनापि वन्यनम् ॥

- (2) सेवितव्यो महावृद्धः फलच्छायासमन्दितः। यदि हैवात फलं नास्ति खाया केन निवायते।
- (3) न खरपस्य कृते भूरि नाश्येन् मतिमान् नरः। एतदेवहि पारिङत्यं यत खरपाद् भूरिरहासस्॥
- (4) यद्शावि न तद्शावि शावि चेन्न तद्न्यणा। इति चिन्ताविष्णोऽयमगदः निं न पीयते ॥
- (a) Parse the underlined words.
- (b) Change the voice in extracts (1) and (4).
- 3. Turn into simple prose:—
- (1) एकेनावि शुवृक्षेण पुष्पितेन खगन्धिना। वासितं तद्भनं सर्वे खपुत्रेण कुलं यथा॥
- (2) यो नित्रं कुरुते सूढ्जात्मनो उसदृष्यं कुधीः । । हीनं वाप्यधिकं वाणि हास्यतां यात्यसीजनः ॥
- (3) व्यसनेष्वेव सर्वेषु यस्य बुद्धिनं होयते। स तेषां पारनभ्येति तत्पभावाद खंग्रयस्॥
- (4) शतुमुनमूलयेत् प्राचरती दशं ती ख्रांन शतुसा । व्यथाकां खुखार्थाय कार्यक्रेनेव कर्टकम् ॥
- (a) Expound and name the samasas in the underlined words.
- (b) Translate the extract (4) into English or Hindi.
- (c) State the rules of sandhi in एकेनापि, तह्न, या सिनं, सृहन्नात्मनाउभद्रशं, हीनं टाप्यधिकं वापि, सतेषां, प्राच्चनीह्यां and कंटकेनेव।
- 4. बहु भिर्मू खेंसंघातेर न्यो न्यपशुवृत्ति भिः। प्रच्छाद्यन्ते गुगाः सर्वे भेचेरित दिवासरः ॥

- (a) Write out the purport of the above extract in English or Hindi.
- (b) Change the voice of the above extract.
- 5. Write down the meanings of the following words in English or Hindi.

श्रस्क्, सायु, लगुड, प्रतिविम्ब, कल्लोल, नागद्न, कुलिश दुर्ग, and जातु॥

#### SANSKRIT.—Second Paper.

- 1. Translate into English any six of the nine extracts given below:—
  - (1) गच्छतस्तिष्ठतो वापि जाग्रतः स्वपतोऽपि वा। सा भूल्मनः कदाचिन्मे त्वया विरहितं हरे॥
  - (2) यादूशं जनमनः परभार्थां यादूशं परधनयहगोषु । तादूशं यदि भवेज्जगदीशे मोज्ञवस्तु किमु तिष्ठति दूरे ॥
  - (3) श्रयोधों यानि दु:खानि सहते रूपणो जनः। तान्येव यदि धम्मार्थी न भूयो जन्मभाग् भवेत ॥
  - (4) किं तस्य दानै: किं तीर्घैः किं तपीभिः किमध्यरै: । इदिस्थो यस्य भगवान् मङ्गलायतनं हरिः॥
  - (5) विषया विषया गाञ्च दूरमत्यन्तमन्तरम्। उपभुक्तं विषं हन्ति विषयाः स्मरगाद्पि॥
  - (6) दर्शनात् पावनाः चन्तः सन्तः शोकहरा गिर: । चैवनात् ज्ञानदाः सन्तः सन्तः संसारतारकाः ॥
  - (7) आदरेश यथा स्तौति धनवन्तं धनेच्छया। तथा धेत् विश्वकत्तारं को न मुच्येत बन्धनात्॥

- (8) मनो यस्य वशे तस्य भवेत् सर्वे जगद्वशे । मनसस्त वशे योऽस्ति स सर्वेजगतीवशे ॥
- (9) पूर्वे किल भूतले चक्रवर्ती काशिराजी विद्याधरी नाम बभूव। तस्य विद्यावती नाम कन्यामीत्। मा सुचरि-तैमीतरिपतरावतीव मन्तोषयामास । श्रय गच्छता कालेन सा स्वगुणान्विता बवृधे। श्राशिराजस्तु प्राप्तयौवनां तां दृष्ट्वा तिद्वाहार्थमुद्युक्तो बभूव सा च तदालस्य यावत् तीर्थ-सानैः शरीरणुद्धिं न विद्धामि तावद् विरमतु मद्विवाह इति सखीद्वारा विवाहं निवार्थ्य तीर्थयात्राये पितरमनुज्ञां ययाचे। श्राबालकालादेवदेवपूजादिनियमवतीं सुतां जानानः पिता भवतु यथेयं वद्ति तथा करोमि इति गजवाजरथादि-सेनोपकरणानि प्रदायानुमेने।।
- 2. Translate into Sanskrit any five of the following extracts:—
  - (1) Riches are for the comfort of life; not life for the sake of amassing riches.
  - (2) Ten crows will eat together in peace but to dogs will not get on together on a carcass.
  - (3) A greedy man is hungry with a world in his possession, while a contented man is satisfied with a little.
  - (4) If a precious stone falls in a mire it is precious all the same; and if dust ascend to heaven, it is none the less worthless.
  - (5) The will of the almighty brings one down from a throne and preserves another in the belly of a fish.
  - (6) A beggar whose end is happy is better than a king whose end is unhappy.
  - (7) A wise man knoweth a fool because he hath formerly been ignorant; but a fool does not know a wise man because he never was wise himself.

#### HISTORY.

1. Describe the social and political state of England arising from the Saxon Conquest.

2. (a) Give an account of the important legal reforms

introduced during the reign of Edward I.

(b) Mention the causes of the Hundred Year's War. Give a short account of the campaigns of Edward III. in France.

3. When and under what circumstances was the "Petition of Right" enacted? State the principal provisions of that Act.

4. Explain the circumstances under which William III.

came to the throne.

5. Mention the chief incidents in struggle between England and France arising from the French Revolution.

6. State the most important parts connected with the history of the Scythian Empire and of the Cupta

Empire.

- 7. Contrast the policy of Akbar with that of Aurangzeb; and show how it was that Akbar's policy tended to consolidate the empire, while that of Aurangzeb led to its downfall.
- 8. Enumerate the administrative and social reforms that were carried out in India between the years 1288 and 1835.
- 9. Mention the additions made to the British dominions in India under the administrations of Warren Hastings and the Marquis of Wellesley.

#### GEOGRAPHY,

1. A man journey's round the World along the equator.

(a) Mention, in order, the countries, divisions, occans and islands over which he would pass.

(b) State what you know regarding the physical features and climates of the various countries and islands.

(c) Give some account of the animals and races inhabiting these parts. 2. State accurately the positions of the following. Mention some circumstance of interest connected which each town and island, and state to what nation each island or group of islands belongs.

Towns.—Cologne, Glasgow, Quebec, Havana, Lyons, Marseilles, Oporto, Shanghai, Yokohamo, Tobolsk, Singapore.

Islands.—Jamaica, Mauritius, Philippines, Canary,

New Zealand.

3. Describe the chief physical characteristics of either Spain, or Egypt.

4. Name.—

(a) The divisions of India which receive the greatest and least rainfall.

(b) The chief seaports of England.

(c) The chief mountain and river systems of Asia.

5. Draw very neatly a map of Africa showing the principal physical features and chief towns.

6. Explain fully how there is a continual circulation of air and water the motive force for which is the Sun.

7. What is Coal? Explain, in detail, its formation.

8. Give clear explanations of—

- (i) Why there is more dew on clear than on cloudy nights.
- (ii) Why rain water is soft and spring water hard.
- (iii) Why ice floats on water.
- (iv) Why a balloon ascends.

# GEOMETRICAL DRAWING.

Note.—All figures must be obtained by Geometrical construction only. Rough sketches with theoretical explanation are not marked. Leave all lines of construction in pencil, no rubbing out. Answers to be in firm ink Lines.

- 1. Construct a regular heptagon, with 1½ inch side.
- 2. Find the centre of a circle with 2 inch radius.
- 3. Construct a rhombus, with a side of 3 inches, and two opposite angles 75° each. Inscribe a square.

- 4. Construct a diagonal scale of 7.5 feet to an inch, to read inches. Draw a line of any length, and on it set off 28 feet 5 inches.
- 5. Construct an equilateral triangle with sides of 4 inches. and inscribe three equal circles, each touching two sides and two circles.

#### BOOK-KEEPING.

- Define the terms— Interest, Capital, Discount, Invoice and Salvage.
- What is a bill? What do you mean by-
  - (a) discounting a bill,
  - (b) retiring a bill, and
  - (c) renewing a bill.
- Rule a form for a Cash Book suitable for recording the following transactions of a merchant by double entry :--
  - (a) Cash on hand ...
  - (b) Goods bought for cash
  - (c) Cash paid to Bank
    (d) Received from Bank
  - 30

Balance the Cash Book. What is the balance of cash on hard.

- 4. Make Journal entries-
  - (i) B sells sugar worth Rs. 70 to A
    - (a) part of cash ... Ra. 20
    - (b) part for his acceptance
  - (c) part on credit ...
  - (ii)  $\vec{B}$  borrows Rs. 20 from C.
  - (iii) B lends Rs. 30 to D.
- 5. Describe the profit and Loss Account and show how the balance of this account is dealt with.
  - Explain the meaning and use of the Belance Sheet.
- Janki Prasad's Assets and Liabilities on 1st January, 1899, are as follows:-

						Lar.
Cash	•••					5,000
Sugar valu	ed at				• • •	5,()():)
Bills Rece	ivable,	due	011	29th		
1899						400
Bills Payab	le, due	ou	30th	Jany.,	66.	1,000

His t	ransa	ction o	luring the month:—
Ist Ja	mv	1899	Sold to A. Smith sugar 1,600
55,	"	,,,	Received from A. Smith his acceptance due 10th May, 1899 1,600
3rd	"	"	Sold sugar for cash to Maharaja, Durbhunga 3,000
5 h	22	12	Bought from Sagar Mall sugar 20,000
7 h	"	,,	Paid Sagar Mall in cash 6,000
10th	33	33	Accepted Sagar Mall's draft duc.  12th June, 1899 14,000  Discounted A. Smith's  Acceptance, due 10th May, 1899  Received cash Rs. 1,560  Allowed Discount, ,, 40
			1,600
17th	"	"	Sold to Nawab of Rampur sugar 18,000
25tlı	"	"	Received cash from Nawab of Rampur 10,000
$29  ext{th}$	<b>33</b> .	<b>33</b> '	Received cash from Bills Receivable, due this day 400
30th	23,	"	Paid cash for Bills Payable, due this day 1,600
31st Value	of s	" ugar ir	Paid cash for wages of clerks, &c., 60 4,000
ule out.	a Le	edger a	and post the above in it by Double Entry.
			and Loss Account and Balance Sheet.
			Process of Closing and Balancing Ledger.

#### POLITICAL ECONOMY.

1. Indicate the exact service which labour renders to production. Distinguish between Productive and Unproductive labour, and state, giving reasons, whether the following persons are productive labourers:—

(a) A policeman.

b) A violin maker and a violin player.

(c) A teacher of a medicine and a teacher of chess.

State the chief functions of Capital.

What is meant by saying wealth can perform the functions of capital by being wholly or partially consumed.

State, with reasons, whether Rs. 50,000 is capital in either of the follow-

ing circumstances:-

(n) Invested in ornaments for the use of the family.

(b) Invested in railway.

3. Explain how the market price of a commodity tends to approximate to a sum just sufficient to yield the current rate of wages and profits to the producers.

4. On what does the rate of interest depend? What are the principal

causes which give vise to fluctuations therein?

"High interest means had scourity." Comment on this saying.

5. Compare the respective advantages and drawbacks of Trade Unions and Corporations as agencies for improving the economic positions of the working-classes.

6. Give a brief account of Schultze-Delizsch and Polificisca Credit Banks.

7. Describe the tendency constantly in operation to produce an equality between the exports and imports of a country; and mention some of the circumstances which counterant this tendency.

. Distinguish the different functions of money. How does credit

operate as a substitute for money?

). How does the Income-Tax affect the persecution of a small income as

compared with the possessor of a large income?

10. State the arguments both for and expinet discriminating between permanent and temporary incomes in their necessiment to the Income Tax.

# ENTRANCE AND SCHOOL FINAL-EXAMINATIONS, 1901.

#### ENGLISH.—FIRST PAPER.

[Answer only the questions asked. Do not give general paraphrases of the passages. Candidates are continued not to neglect the last question, for which 20 marks are assigned.]

1. Here the good dake lived with his loving friends, who had put themselves into a voluntary exile for his sake, while their land and revenues enriched the false usurper; and custom soon made the life of careless case they led more sweet to them than the pump and unersy splendour of a courtier's life. Here they lived like the old Robin Hood of England, and to this forest many noble youths daily resorted from the court, and did fleet the time carelessly as they did who lived in the golden age.

(a) Who is the duke here referred to? this a brist outline of the Tale from which the above extract

is taken.

(b) Express in other words the meaning of the charce, "Who had put themselves into a voluntary exile for his sake."

(c) Explain "the pomp and uneasy splend are of a courtier's life." Why is it called "uneasy?"

- (d) Who was Robin Hood, and how is he said to have lived?
- (e) Explain the phrase "the golden age." Why is its so named, and how were men without care in that age?

(f) Give synonyms for—usurper, resorted, fleet.

- 2. Explain the meaning and force of the words printed in thick type in the following.
  - (a) Lear would not hear him out.
  - (b) Item, two lips, indifferent red.
  - (c) Shylock thought within himself, "If I can once catch him on the hip, I will feed fat the ancient grudge I hear him; he hates our Jewish nation; he lends out money gratis, and among the merchants he rails at me and my well-earned bargains, which he calls interest.
  - (d) When the mind is at ease, the body has leisure to be delicate.
  - (e) I took naturally to everything connected with the sea.
  - (f) How do you make out that this island was made by them?
  - (g) I can honestly say I was a better and more serious person; not but what I am bad enough now.
  - (h) I don't mind building this wall.
  - (i) Let us take the telescope, at all events, father.
  - (j) I think you'll make a sharp, seaman by and by.
  - (k) There is nothing like being prepared.
  - (1) Suppose we return.
  - 3. "Resolute men can do a great deal." Show how this sentence in "Mastermen Ready" is exemplified in the course of the story, and especially in the conduct of Ready himself. (The account must not exceed 300 words).
  - 4. (a) O luxury! thou curst by heaven's decree,

    How ill-exchanged are things like these for thee,

What, in Goldsmith's opinion, are the crits produced by tuxury? What are the "things like these" with which be contrasts tuxury?

(a) To me more dear, congenial to my heart, One native charm, than all the gloss of art.

Explain the phrases "native charm" and "gloss of art," and bring out clearly the contrast implied.

(c) E'en his failings leaned to virtue's side.

Of whom is this written? Express the meaning fully, illustrate it from the details given in the poem.

No sound of joy or sorrow
Was heard from either bank;
But friends and foes in dumd surprise.
With parted lips and straining eyes,
Stood gazing where he sank;
And when above the surges
They saw the crest appear,
All Rome sent forth a rapturous cry,
And even the ranks of Tuscany
Could scarce forbear so cheer.

- (a) Describe the incident here mentioned,
- (b) Explain what is meant by "either brook," "friends and foes," "the surges," "the crest," and "the ranks of Tuscany."
- (c) What figure of speech is involved in the expression "all Rome?"
- (d) Express the last line in different words. What other meanings may "cheer" have?
- 5. Rewrite the following passages in your own words, taking care to express each idea fully and accurately:—
  - (a) What is meant by the poet's nervin, "A little knowledge is a dangerous thing?" Not that knowledge, little or much, if it be real knowledge, is dangerous; but that many a man considers a mere slight and hazy view of many thing; to be

real knowledge, whereas it does but mislead, just as a short-sighted man sees only so far as to be led by his uncertain sight over the precipice. Whatever we learn must be really studied and mastered, as far as it is taken up.

- (b) Goods manners are a passport in society, and usually determine a man's success in life. A good man often injures himself by his bad manners. Good manners, says Locke, are the fruit of good sense and of good feeling. If the law of kindness and gentleness be written in the heart, it will lead to that desire to oblige and to please others which is the foundation of good manners. The true way to learn courtesy is to place self last; therefore in being thoughtful of others we are cultivating good manners.
- (c) Fortune attends the lion-hearted man Who acts with energy; weak-minded persons Sit idly waiting for some gift of fate. Banish all thought of destiny, and act With manly vigour, straining all thy energy The blame of failure will not rest with thee.

## ENGLISH GRAMMAR.—SECOND PAPER.

1. (a) Give the singular of the following nouns:—
appendices, bases, radii, storeys, staves,
cherubim, woes, automata, footmen.

(b) and the *plural* of the following:—
maid-servant, lord-lieutenant, court-martial,
pailful, man-servant.

(c) Give the possessive case singular of:—
father-in-law, goodness, ladies, conscience.

(d) and the feminine of :—
fox, czar, duke, administrator.

2. (a) Is the verb in the following transitive or intransitive,

"Not a drum was heard?"

- (b) What are the transitive verbs corresponding to fall, lie, sit, rise? Give the present and past tense and past participle of each of the transitive verbs you mention and give a sentence showing the use of each one in the present tense.
- (c) Put into the active voice; Swords were drawn by the nobles, and into the passive voice: The earl demanded his name.
- 3. Add a sentence to each of the following so as to show that you clearly understand when each should be used:—
  - (a) I did come.

(b) I ought to come.

(c) I ought to have come.

(d) I will come.

4. (a) Distinguish between the following sentences;

(1) If he is in the city I shall find him.

- (2) If he be in the city I shall find him.
- (3) If he were in the city I shall find him.
- (b) What is the mood of may in the following?

(1) You may go.

(2) I love you that you may love me in return.

(3) May you be happy!

5. What prepositions should be used after the following words?

Give a sentence to illustrate each: :— absolve, confide, worthy, expert, prejudice, agreeable, correspond, confer, thirst.

- 6. Correct the following sentences where necessary and give reasons for corrections:—
  - (a) I never have and never can believe it.

(b) What is the use of him saying so?

(c) They each followed in their turn.

. (d) His was one of those violent tempers that produces such sad results.

7. Analyse the following and parse the words in italics:-

In Bruges town is many a street

Whence busy life hath fled;

Where, without hurry, noiseless feet

The grass-grown pavement tread.

There heard we, halting in the shade,

Flung from a convent-tower.

A harp that tuneful *prelude* made To a voice of *thrilling* power.

8. Expand the following words and phrases in italics into sentences:—

(a) He announced the arrival of Casar:

(b) The boy went home on the completion of his task.

(c) He labours to become rich.

(d) He failed through carelessness.

- (e) This being granted the proof is easy,
- 9. (a) Turn the following into Indirect speech:

"Now just you stay where you are!" she said.

"I must go and see who's knocking," he replied.
"Whoever can be knocking at this time of

night?"

"How do I know? That's just what I am going to find out?"

"I won't let you."

"What are you afraid of?"

"I'm frightened to death. You shan't go! I

tell you you'll be killed.

(b) And the following into Direct speech:—
She asked if he would be back soon and if she

should wait for him. The servant replied that she had been expecting him for some time and requested her to walk in.

I0. The following is an outline of a story. Tell the story in your own words following this outline. You may add a little to the story so as to make it more complete and interesting but the whole should not occupy more than twenty lines:—

A boy wandered from his home—entered a deep cave—saw two eyes glaring at him—the boy turned to the—the animal bounded towards him—the boy fell down through fear—a shot was heard—the animal fell dead—the shot was fired by the father who had followed at a distance.

#### ENGLISH .-- Tumo Papir.

Translate into English:-

#### Λ.

لتكونكو اچهي كتابين پرتانا اور بري كتابونكي پرتاني سے بنهانا بهي مان باپ كا فرض هي - اچهي كتابونكي پرتاني سے اركونكر عهدہ باتونكا علم هوتا هي اور جسطور سے دنيا ميں برتنا چاهئي وہ اونكو معلوم هوجاتا هي - يقين جانو كه قصه كهاني اور عشق بازي كي باتونكي پرتهني سے اركونكو سواے نقصان كے كهم فائدہ نهيں هوتا - ايسي كتابون سے تو جہان تك هوسكي بنهانا هي چاهئي - برتے لوگونكي كار نامي برتانا بهي اركونكي لئے نهايت فائدہ مند هي - انكي پرتاني سے وہ ذرائع معلوم هوتے هيں جنسے انسان اپني ترقي كرسكتا اور ناموري حاصل كرسكتا هي - جبتك اركا بين جان كي يہم نهيں جان سبب برتے لوگونكے كار ناموني حاصل كرسكتا هي - جبتك اركا سبب برتے لوگونكے كار نامونكي راہ پر چلنا سلا كے لئے خير سخت هي برتے لوگونكے كار نامونكے راہ پر چلنا سلا كے لئے خير بخش هي - بخش هي برتے لوگونكے كار نامونكے راہ پر چلنا سلا كے لئے خير بخش هي -

#### $\mathbf{B}$

کسی جنگل میں تارکے درخت پر ایک بیا کا گھونسلا تھا۔ یکدن ایام بارش میں شام کے وقت بیا اپنے گھر میں بیتھا تھا کہ ینایک بادل ارمنت آیا۔ بجلی چمکنے لگی۔ بزے بزے بوندگرنے لگے۔ اتنے میں ایک بندر دکھہ سے پریشان وہاں آنکلا۔ بارش سے دعیہ پاکر اوس درخت پر چڑج آیا۔ لیکن کہیں ایسے پتے نہ تھے کہ اوس بے پناہ بندر کو بچا لیتے - کبھی اس شاخ پر اور کبھی اوس شاخ پر جا دبکتا ۔ جب اولے بھی گرنے لگے تب تو گھبرا کر چلانے لگا - بیا سے اب رھا نه گیا پکار کر بولا اے بندر تہکو خدانے آئم زان سا بدن دیا ہے ھاتہ پاؤں دئے ھیں تم چاھو تو بہت کچہ کوسکتے ھو اگر اینا ایک گھر بنا لئے ھوتے تو اسوقت کیسا کام آتا - دیکھو مجھکو میں بے پناہ چھوتی سی چریا ھوں اپنے مقدار کے موافق کیسا ایک خوب صورت گھر بنا لیا ھے - سکھہ سے بیتھا ھوں اور خدا کا شکر کارھا ھوں – بندر ایک تو پہلے ھی سے چرھا تھا بیا کی باتوں سے جلگیا اور جنجھلا کر ایک ھاتہ سارا اور گھونسلے کو نوچ کے پھینکدیا ۔

صلاح دیجے اوسکو جسکو صلاح سجھاے ۔ صلاح ندیجے بندر کو جو نقصان کراے

ایک وقت کسی ملک پر محمود نے چرھائی کی۔ اوس ملک کا مالک ایک کم عمر اترکا تھا اور اوسکی ماں سلطنت کرتی تھی۔ جب اوس جانب محمود کی چرھائی کی خبر سنی تب اوس عقلمند عورت نے کہلا بھیجا کہ اگر آپنے مجھپر فتح پائی تو جہاں جہاں فتح لکھی جایگی تہاں تہاں یہ بھی لکھا جائگا که محمود نے ایک بیوہ عورت کے ملک کو بھی چھیں لیا۔ اور اگر شکست پائی تو برے شرم کی بات ھوگی۔ محمود سمجہ گیا اور اودھر کا رخ چھور دیا۔

Translate from Hindi into English:—

A.

बालकों की अच्छी पुस्तकों का पहाना श्रीर बुरी पुस्तकों के पढ़ने से बचाना भी माता पिता का धर्म है। श्रच्छी पुरतकों के पढ़ने से वालकों को जपन वातों का प्रान होता है।
श्रीर जिस प्रकार संसार में वर्षमा पाहिये वह उनको नानून
हो जाता है। निश्चय जानी कि किस्ते कहानी श्रीर श्रृहार
रस की क्याओं के पढ़ने सेवालकों को नियाय प्रानि के कुछ
लाभ नहीं होता। ऐसी पुरतकों ने तो जहां तक हो नके
वचाना ही उचित है। श्रेष्ठ पुरतकों का जीवन चरित्र पड़ाना की
खालकों के लिखे श्रदीय लाभदायक है। उनके पढ़ने ने जिन २
उपायों से पुष्प अपनी उसति कर सकता है श्रीर की ति
प्राप्त कर सकता है सब नालून हो जाता है। जब तक वालक
बड़े लोगों के जीवन चरित्रों को नहीं जानता तब कक वस
करना चाहिये किस तरह रहना चाहिये नहीं जान सकता।
इस कारण श्रेष्ठ पुरुषों के जीवन चरित्रों का श्रवुसरण करना
सदैव कल्याएकारक है।।

B.

किसी बन में ताड़ की पेड़ पर एक बया प्रजी का घों मला था। एक दिन वर्षा के कतु में सांक समय वया जपने घर में वैठा था कि एका एकी भेघ चलाई शाये विज्ञानी पमकने लगी। व्यक्ती र बूंदे पड़ने लगी। व्यत्ने में दुः से शातुर एक बन्दर वहां श्रा निकला वर्षा से दु: सी ही कर उन व्यापर घट़ शाया। परन्तु कहीं ऐसे पत्ते न थे कि उन निरायय बन्दर की बमा लेते। वाभी इस पासा पर कभी उस पर जा व्यक्ता। जव श्रीते भी गिरने लगे तब ती घं घं कर कि हा शरे बानर तुमें परनेश्वर ने मनुष्य की सी देत दियी है। हाथ पांव दिये हैं। तम बाही लो बहुत कुछ कर सकते हो। यदि एक अपना धर बना लिये हीते तो इस सनय दीसा काम शाता। मुक्तों धर बना लिये हीते तो इस सनय दीसा काम शाता। मुक्तों

देखों में असहाय छोटा चा पत्नी हूं। अपनी अवस्था के अनुसार वैसा एक छुन्दर घर वना सिया है। इस के बैटा हूं और ईश्वर का धन्यबाद गा रहा हूं। बानर एक तो पहले ही के चिढ़ा था। बया की बातों से जल गया। खंकता कर एक हाथ सारा और घोंसले को नोच के फेंक दिया।।

शिका वा को दीनिये जाको सीख छुकाय। सीख न दीने बन्दरा अपनी हानि कराय॥

C

एक वेर किसी देश पर सहसूद ने जहाई कियी। एक कोटी उस का बालक देश का खामी या और उसकी माता राज्य करती थी। जब उधर सहसूद की खड़ाई का समाचार खना गया उस बुद्धिमती की ने कहला भेजा कि यदि आपने सुफ पर जय पाई तो जहां २ जीत लिखी जायगी तहां २ यह भी लिखी जायगी कि महसूद ने एक विषवा जा देश भी कीन लिया परन्तु यदि पराजयपाई तो बड़ी लज्जा की जात होगी। सहसूद समक गया और उधर का दख छोड़ दिया।

## MATHEMATICS.—FIRST PAPER.

1. (a) What is the greatest length which is contained a whole number of times exactly in both  $25\frac{15}{28}$  feet and  $21\frac{9}{20}$  feet?

(b) Find the value of

 $\frac{\cdot 49}{2 \cdot 1}$  of  $\frac{(3\frac{1}{3} - 2\frac{1}{2}) \div \frac{5}{6} \text{ of } \frac{3}{8}}{2\frac{2}{3} \div (\frac{1}{2} + 1)}$  of £46.

2. (a) Express the difference between 9:428571 and 857142 as a vulgar fraction in its lowest terms.

(b) Extract the square root of

$$\frac{.0253 \times .365}{8.03}$$

to five places of decimals.

- 3. In a two-mile race A wins, B being 22 yards behind, and C 106 yards behind B. By how much would B beat C in a three-mile race.
- 4. What sum at compound interest will amount to Rs. 650 at the end of the first year and to Rs. 676 at the end of the second year?
- 5. How much 3½ per cent. Government Securities at 95¼ must be sold in order to purchase enough 5 per cent. Calcutta Municipal Debentures at 119¼ to produce an annual income of Rs. 665, a brokerage of ¼ per cent, being charged on each transaction?
- 6. (a) Find the H.C.F. of  $x^3 + 2x^2 + 1$  and  $2x^3 + x^2 + 4x + 7$ .
  - (b) Extract the square root of  $(a-b)^4 2(a^2 + b^2)(a-b)^2 + 2(a^4 + b^4)$ .

7. Simplify.

(i) 
$$(a-b+c)^{3}-(a+b-c)^{3}+6a\{a^{2}-(b-c)^{2}\}.$$

(ii) 
$$\frac{1}{1+x+x^2} - \frac{1}{1-x+x^2} + \frac{2x}{1-x^2+x^2}$$

8. Solve the equations:—

(i) 
$$\frac{3x+1}{4} - 2(6-x) = \frac{5x-4}{7} - \frac{x-2}{3}$$
.

(ii) 
$$\frac{2}{x-1} + \frac{3}{y+1} = 2$$
  
 $\frac{3}{x-1} + \frac{2}{y+1} = \frac{13}{6}$ 

9. A number has three digits which increase by 1 from left to right. The quotient of the number divided by the sum of the digits is 26. What is the number (

10. If 
$$\frac{x-y}{x+y} = a$$
,  $\frac{y-z}{y+z} = b$ ,  $\frac{z-x}{z+x} = c$ ,

shew that

$$(1-a)(1-b)(1-c) = (1+a)(1+b)(1+c).$$

#### MATHEMATICS.—SECOND PAPER.

## [N.B.—The usual signs and abbreviations are permitted.]

1. Any two sides of a triangle are together greater than the third side.

The sum of the distances of any point from the vertices of a triangle is greater than half the perimeter of the triangle.

2. The opposite sides and angles of a parallelogram are equal and a diagonal bisects it. Prove also that the diagonals bisect each other.

3. The rectangle contained by the sum and difference of two straight lines is equal to the difference of the squares described upon them.

4. The angles in the same segment of a circle are equal.

5. Inscribe a circle in a given triangle. Given the base and verticle angle of a triangle, find the locus of its incentre.

6. (a) In a right-angled triangle the sides forming the right angle are 24 ft. and 45ft. Find the perpendicular from the right angle on the hypotenuse.

(b) In a parallelogram the perpendiculars between the two pairs of parallel sides are 64 ft. and 91 ft. If one

side is 119 ft. find the adjacent side.

7. The two parallel sides of a trapezium measure 58 yds. and 42 yds., and the other sides are equal, each being 17 yds. Find the area.

8. (a) Two tangents drawn from an external [point to a circle are at right angles and measure  $1\frac{3}{4}$  in. each. Find the area of the circle.

Take 
$$\pi = \frac{22}{7}$$

(b) The chord of an arc is 48 in. and the chord of half the arc is 27 in. Find approximately the length of the arc.

[Take 
$$\pi = 3.1416$$
.]

9. Draw a plan and calculate the area of a field from the following measurements in links:—

From	to A 1700 - C	range to .1
	to <i>U</i> 800 400	65
From	to B	go North.
	150.) 1100 625	159 240
From	Ā	go Evrt.

#### ARABIC.—FIRST PAPER.

1. Translate the following into English:-

قيل بينيا الحجام جالس في منظرة له- و عنده وجوه اشل العراق - اذا اتي بصبي من الخوارم له من العمر نصو بضح عشرة سنة - و أنه ذوابتان موحيتان قد بلغتا خصرة - فلها أدخل عليه - الم يمبا به ولم يكترث - وصار ينظر الي بناء المنظرة - وما فيها من المجانب - ويلتفت يبينا وشبالا - ثم اندنح يقول اتبنون بكل ريح آية تعبث ون- و تتخذون مصانح الملكم تخلدون - قال و كان الحجاج متكمًّا - فجلس - وقال يا غلام أ انى اربى لك عقاد ونهنا - احفظت القرآن ? قال أو خفت عليهُ الضَّيامِ تحتي احفظه ؛ وحفظه الله تعالى - قال افجمعت الترآن / قال أو كان مفرقا حتى اجمعه ؛ قال افاحكمت القرآن ؟ قال اليس الله انزله محكما ؛ قال العجام افاستظهرت القرآن قال معاذ الله ان اجعل القرآن وراعظهري - قال ويلك قاتلك الله ماذا اقول ـ قال الويل لک و لقومک - قل اوعيت القرآن في صدرك - قال المجام فاقرء شيا - فاستفتم - اعوق بالله منَّ الشيطي الرجيم - بسم الله الرحيين الرحيم - اذا جاء نصرالله والشقيم و رائت الفاس يحرجون من دين الله افواجا ع فقال

الحجاج و یحک - انه یدخلون - فقال الغلام قد کانوا یدخلونو اما الیوم فقد صاروا یخرجون - قال و لم نالک - قال اسوء
فعلک بهم -

- 2. In the above extract write out:—

  (a) The different senses of قاتلک دیاک خواری معرای and
  - and which is meant here?

    (b) The double sense of the expressions taken advantage of by the lad in his conversation with
- 3. Translate the following into English:
  - قضي الله امرا و جفا القلم (a) و في ما قضي ربنا ما ظلم فقي الامر ما خان لها قضي و في الحكم ما جار نها حكم بيدا اولاً خصلتي ارزاقسنا و قد كان اروا هنا في العدم و قد كان اروا هنا في العدم
  - الهي انت ذو ففيل و سن (b) و اني ذو خطايا فاعف عني و اني ذو خطايا فاعف عني و ظني فيك يا ربي جهيل فحقق يا الهي مسن ظني
  - اين الملوكومن بالارض قدعمروا قد فارقوا ما بنو فيها وما عمروا واصبحوا رهن قبر بالذي عملوا عادوا رسيها به من بعد مان ثروا اين العساكر ماردت وما نفعت واين ماجهوا فيها وما المخروا اتا هم امر رب العرش في عجل اين ينجهم منه اموال و لا وزر

شكوت الي وكيسح سوء حفظي (d) فاوصاني الي ترك المعاصي لان العلسم نسور من اله و نور الله لا يعطي لعاصي

5. Translate the following into English :-

- 4. Re-write the poetical pieces with discritical marks very carefully and mention their various authors in Arabic writing.
- و يعجني س الانكليز خلال منها انه ليس عندهم فضول و تكليف علي الدخيل فيهم بل ولا علي من هو منهم فلا يزورونه في غير وقت الزيارة و لا يستعيرون منه و لا يتعرضون لما ياتيد فلوراً و حمثلا مضطجعا علي قارعة الطريق لم يسألوا لاي سبب تفعل ذالك بل ربها حسبوا ان اهل بلاده جهيعا يضطجعون مثله و ان في ذالك مصلحة لهم و ينضم الي ذالك

احترا ميم للرساقُل فلا يفتم احدهم كتابا جاءه باسم غيره بل

يبذل جهذه في ايصاله اليد و اذا زارك منهم زائر فلا يهد يده ولا طرفه الني ما بين يديك من الصحف فاذا اراد ان ينظر في كتاب لم يلهسه الابعد ان يستا ذنك «

6. Mention the ايراب of the following:-

يضطنجمون -- يسطعيرون -- يتعرضون -- تكليف--يسألون -- ايصال -- زار --

## ARABIC.—Second Paper.

1. Translate the following into English:--

حكى أن خسرو و هو ملك من ملوك العجم كان يحب المسك فئان يوما جالسا في بستانه هو وشيرين زوجته - فجاء حياد و معد سبكة كبيرة - فاهدا ها لخسرو فاعجبته تلك السبكة فانحم عليد باربعة آلات درهم - فقالت له شيرين بنس ما فعلت

فقال ولم \_ قالت لانک بعد هذا اذا اعطیت احدا س حشهک هذا القدر يحتقره ويقول أنها أعطاني مثل القدر الذي اعطاه للصياد - وان اعطيته اقل منه يقول فد احتقرني وعطاني اقل مها اعطي تلصياد - فقال خسرو القد صدقت \_ قال رب اعفراي و الذي و أدخلنا في رحمة ك - و انت اردم الراحمين - المال البنون زينة الحياة الدنيا \_وما اصابكم س مصيبة فبها كسبت ایدیکم \_ یرید ان یخرجکم سن ارضکم فها ذا تاموون \_ علم الانسان ما لم يعلم - الم يعلم بان الله يوي - انهب آلي فرعون أنه طفي - بالي - ان ربي علي كل شئي قدير - قالوا لم نك من المصلين - و أم نك نطّعم اللهسكين - الم تروا كيف حلق الله سبع سبهاوات طباقا وجعل القهر فيهن نورا وجعل الشهس سراجاً \_ لم تقولون مالا تفعلون \_ ان عذاب ربك اواقع \_ ما له من دافيع ـ وما خلقت الجن والانس ألا ليمبدون ـ ولقد خلق الله السهاوات والارض وما بينهها في ستة ايام ـ أن الله يعلم غيب السهاوات والارض والله بصير بها تعملون انا لله وانا أليه راجعون - أن الله مع الصابرين - اللهم أنت ربي و أنا غيدک ـ

2. Translate the following into Arabic giving vowel marks very carefully to the Arabic words you write:—

I saw four women. I met three men in the garden. Ahmad called upon me at my house. Give this book to Omar. Do not sit between two persons without their permission. I have made a promise and must fulfil it anyhow. He alighted from his horse. He has suffered great loss in trade. All praise is due to God the Lord of the whole world. A ruler without justice is like a river without water. He that does good to another does good to himself. Jacob sent his ten sons to buy corn in Egypt. How do you do? Do you know his name? I can speak in Arabic. He can speak in Arabic very well. The Arabic language is very difficult. Quran is in the Arabic language. Lead us to the right path. Few read Arabic well. Their father is Adam and their mother Eve. He killed Zaid. There are three oranges in my garden. Boys are

reading Arabic in the school. The time of examination is near. I went from Mecca to Madina. There are gardens of the date-tree. The Arabs are very strong. They regularly pray to God in the mosque. Fasting in the month of Ramzan is compulsory for Muhammadaus. The travellers and the sick may keep fast at other time instead.

#### PERSIAN.-FIRST PAPER.

ن التحديد المتعدد ال

واز جهله چیزها اگرکسے خواهد که به مصرباغے سازه در (۵) هر فصل سال که باشد بتواند ساخت چه هر درخت که خواهد مدام حاصل توان کرد و بنشاند خواه مثهر و معهل خواه به ثهر و کسان باشند که دلال آن باشند واز هرچه خواهی در حال حاصل کنند و آن چنان ست که ایشان را درختها در تغارها گشته باشند و به پشت باسها نهاده و بسیار باسهائے ایشان باغ باشد و ازان اکثر پر بار باشد از نارنج و ترنج و انار و سیب و به و گل و ریاحین و سپر غهها -

و از مشاغل دولت خانه خاص فراغ یافته به شاه برج(c) که در بلندی به سه رخ البنتهی هم آغوش است و در استواری به سه سکندر هم دوش - تشریف فرماینه - درین بیت الشرت غیر پادشاهزادهائے کام کار بخت بیدار و چندے از ملتزمان بساط قرب هیچ یکے بے دستوری راه ندارد - حتی خدمتگاران که اینان نیز بے طلب در نهی آیندو بآن خدمت قیام دارند توقف میکنند و بحضے امور پادشاهی که بروے قیام دارند توقف میکنند و بحضے امور پادشاهی که بروے

روز افتادن آن صلاح دولت نیست و مضامین فرامین قضا اکین که بامرائے دور دست باید نوشت و اظهار آن مصالم ملکی بر نتابد با وزیر درمیان می آرند -

در عهد خلافت هارون الوشید در شهر بغداد مرد بود (۵) به چیز و پریشان حال که سند باد حهالش میگفتند و پیوسته بارهائی گران میبرد از مزد حهالی روزی میخورد - اتفاقا روز از روزها که از اثر آفتاب آهن میگداخت و از گرمی هوا جگر حربا میسوخت سند باد پشته گران برداشته میرفت تا اینکه بدر خانه بازرگانے رسید که آب زده و رفته بودند هوائی داشت چون هوائی بهشت و در پهلوئی خانه مصطبه بود بزرگ بار برآن مصطبه گذاشت که لختے بر آساید –

2. (a) Give the plurals of:—

دينار — فائده — وزير

and the singulars of:—

أمور ك- مضامين -- فرامين -- مصالم

(b) Write short notes, in Persian, on the following words:—

دينار - سدرة المنتهى - سدسكندر - بيتالشرف and بغداد

3. Translate the following into English:-

هوس پختن از کودک ناتهام (ه) چنان زشت نبود که از پیر خام مرا می بباید چو طفلان گریست نکو گفت کناهان نه طفلانه زیست نکو گفت لقهان که نا زیستن به از سالها پر خطا زیستن هم از بامدادان در کلبه بست به از سود و سرمایه دادن زدست

شانه چون دايد کان سه گوهو پاک **(b)** می شناسند گوهر از خاشاک بہر ملک دو روزی ہے سرو بن ایمی اند از فریب چرخ کهی شادمان شد زبخت فرخ خویش سود بر خاک بندگي رخ خويش لیسکن از پیش بیننی و پے غور با جِكْرِ كُوشِكَّان شد أندر شور داد فرمان که هر سه بدر منیر . پیش گیرند را ز پیش سریر دًا حد ملك شهدر يار بدود هر که ماند گغههاهگههار بود باد گیسوئے عروسان چہن شانہ کند (c) بوئے نسرین و قرنفل برود در اقطار واله بر لاله فرود آمدة هنگام سحر را ست چون عارض گلبوئے عرق کرد ایار دادبوئیسمی آوردوگلوسنبلوبید در د کان بچه رونق بکشاید عطار خيري وخطعي ونيلوفروبستان افررق نقشهائم که درو خیره بهاند ابصار ارغوان ريخته بردرگه خضراء چهن همهنان است که برتخته دیبادینار

4. Explain the meanings of the following lines in simple Persian:—

صحبت نیکان زجهان دور گشت خوان عسل خانهٔ زنبور گشت دور نگر کز سر نا مسردمي پر هذر است آدمي از آدسي

معرفت از آدمیان برده اند و آدمیان را زمیان برده اند چون ملک از عهد سلیهان بریست آدمی آنست که اکنون پریست

5. Analyze the following couplets, using Persian terms:
اینکه میگویند آن بهتر ز حسن
یار ما این دارد و آن نیـزهم

6. What are the غرص of the letters = and ? Give examples. With what other letters can ; and ¿ be changed? Give examples.

## PERSIAN.—SECOND PAPER.

1. Translate the following into English:-آورده اند که شخصے خانه شخصے بکرایه ستانده بود و روزے چندے آنجا بسر بردہ ناگاہ ازان خانہ بیرون رفت و ازان شهر سفر کرده بولایت دیگر افتاده - و آنجا بهنصب وزارت رسید- آن فقیر که خانه بدو کرایه داده بود برخاست و روے بخدمت او نہاں۔ چون بدان شہو رسید خواست که ببارگام درآید- حاجبی استادم بود-گفت چه کسی و بچه جِراًت بدین بارگاه در سی آئی۔گفت آشنائے و زیر ام۔ مرا آشنائي بدين گستاخي مي آرت - حاجب پرسيد كه چه آشنائي داري آباوے۔ گفت وقتے خانه بكرايه بدو داده بودم حالا أمدة ام تا نظرے در كار من كند و مرا از حضيف مذلت بدروة عزت و حرست بر آرد - حاجب بخندید و گفت اے بیجارہ تو مرد نادان بودهٔ این سهل وسیلهٔ ایست که خانه بکرایه داده بودم ـ این را حقے تصور کرده و آمده که حق گذاری این را رعایتی یابی ـ برو سر خویش گیر و مهدی دیگر در پیش - قضارا و زیر از پس پرده این گفت و شنید استهام

مي نهود - حاجب را طلبيده گفت با كه سخن ميگفتي - گفت مرد آمده كه من آشنائے وزيز ام و وقتے خانه بكرايه بدو داده ام من او را ملامت ميكردم كه اين سخن مگوے و بچنين سهل وسيله قرب وزير مجوے و توقع التفات و انعام مدار وزير گفت غلط كردي برو و او را بيار كه آشنائے قديم سن است و حقوق خدمت دارد - حاجب برفت و او را در آورد وزير او را تعظيم بسيار كرد و دانوازي بيشهار بجا آورد و احوال عيال و اطفال وے پرسيدو براے هريك تحفه و تبركے برنكانه ترتيب داد و او را دوست كام و با مرادے تهام بهنزل و مقام باز گردانيد -

نورده از مهر و فا سینه را سهل مدان صعبت دیرینه را روے مگردان از رفیقان خویش یاد کی از خدست یاران پیش

2. Translate the following into Persian:-

(a) Three days after, as the Caliph Umar was praying in the mosque, Firoze entered suddenly, and stabbed him thrice with a dagger. The attendants rushed upon the assassin. He made a furious resistance, slew some, and wounded others, until one of the assailants threw his vest over him and seized him, wherenpon Firoze stabbed himself and expired. Religion may have some share in prompting this act of violence, perhaps revenge for the ruin brought upon his native country. The Caliph gathered strength sufficient to finish the prayer in which he had been interrupted, for he who deserts his prayers commits sin. Being taking to his house, he languished three days without hope of recovery, and could not be prevailed upon to nominate a successor. "I cannot presume to do that," said he, "which the Prophet himself did not do."

(b) In a certain town of Persia, situated on the confines of your Majesty's dominions, there lived two brothers, one named Qasim and the other Ali Baba. Their father,

at his death, left them but a moderate fortune, which they divided equally between them. It might therefore be conjectured that their riches would have been equal, but, chance ordered it otherwise. Qasim married a wife, who very soon after her nuptial ceremonies, became heiress to a large estate, a well furnished shop, and a ware-house filled with rich merchandise. He lived very comfortably. Ali Baba, on the other hand, had taken a wife as poor as himself. He lived in a very humble house, and had no other means of gaining his livelihood, and supporting his wife and children, than by going to cut wood in a neighbouring forest, and carrying it about the town to sell on three asses, which formed the whole of his capital.

## SANSKRIT.—FIRST PAPER.

1. Translate the following into English:—

श्रयं निजः परो वेति गणना लघुचेतसाम् । उदारचितानां तु वड्डधेव कुटुम्वकम् ॥ कारुण्यं संविभागश्च यस्य स्त्येषु सर्वदा । संभवेत स महीपालखेलोक्यस्यापि रचणे ॥ श्रथेवं जल्पतां तेषां चित्राङ्गदो नाम हिरणो लुख्यक-

त्रासितस्तिस्तिवेव सरित प्रविष्टः। प्रथायान्तं तं ससम्भ्रम-सवलोक्य लघुपतनको वृद्धमाह्रद्धः। लघुपतनको मृगं सम्यक्ष् परिचाय मन्थरकसुवाच् । एन्छोहि सखे मन्थरक तृषाऽतीयं मृगोऽव समायातस्तस्यशब्दोऽयं न मानुषसंभव इति।

2. In the above passage:

- (a) Parse the words ऋटुम्बकम्, नृक्षम्, ससम्भ्रमम्, जन्पताम्, तस्य and नाम।
- (b) Give the roots of आरूड:, परिज्ञाय, उवाच and एहि:, and conjugate them in the third preterite (लुङ्).
- (c) Decline ल पुचेत्स, जल्पन, and तर् in the nonlinative singular and plural numbers in all genders.

- (d) Expound and name the Sumasas in the underlined words.
- (e) Analyze the Sandhi in परोवेति, तस्मिन्नेव, अधैवम्, द्यासंः and एस हि।
- 3. Turn into simple Sanskrit prose:
- (a) श्रिप मन्दत्वनापनो नष्टो वापीप्रदर्शनात्। प्रायेगा प्राणिनां भूयो दुः खावेगोऽधिको भवेत्॥
- (b) प्राचा यथात्मनी अभीष्टा भूतानामपि ते तथा।
- (c) यः सन्मानं सदा धत्ते भृत्यानां चितिपो ऽधिकम्। वित्ताभावे अपि तं दृष्ट्वा ते त्यजन्ति न कहिंचित् ॥
- (d) सदाचारेषु शृत्येषु संतीदत्सु च यः प्रभुः। श्रुकी स्थानाकां याति परत्रेह च सीदति॥
- 4. In Question 3 translate the extract (a) into English or Hindi. State the rules of Sundhi in the underlined words.
- 5. Correct the following sentences and give reasons for your correction:—
- (a) कुलालः सुन्दरं घटः कियते ।
- (b) नीचः धनं प्राप्त्वा द्रप्यति।
- (०) दृशरथस्य चतस्तः पुत्रा प्रभूत्।

#### SANSKRIT.—SECOND PEAPR.

- (a) यो न सञ्चाते देशान् यो न सेवेत परिष्ठतान्। तस्य सङ्कुचिता बुद्धिप्तिविन्दुरिवाम्भिस्।।
- (b) यस्तु सञ्चरते देशान् यस्तु सेवेत परिष्टतान् ॥ तस्य विस्तारिता बुद्धिस्ते तविन्द्रिवाम्भि ।
- (c) प्राच्ची हि जलपता पुंसां श्रुत्या वाचः गुभाशुभाः।
  गुरावद् याद्यमादत्ते हंम: चीरिनवारभसः॥

- (d) विद्याविनयोपेतो हरति न चेतांसि कस्य मनुजस्र। काञ्चनमणिसयोगे। न जनयति कस्य लोचनानन्दम्।।
- (e) का ते कान्ता कस्ते पुत्रः संसारोऽयं प्रतीव विचित्र:। कस्य त्वं वा कुत ज्ञायातः तत्त्वं चिन्तय तदिदं भात:।।
- (f) अन्नैव भारते वर्षे राजपुरं नाम नगरम् । तत्र नगरे सुनन्दो नाम धीवरः वन्नति । परं स्वभावेन जीवद्यापरः। एकदा दुर्भित्तं सञ्जातम् । तस्मिन् दुर्भित्ते सर्वोजनः अन्स्या-प्राप्ती मत्स्यमां साहारं करोति । सुनन्दोऽपि भार्य्यया भिष्तिः । स्वमि लोकाचारं प्रतिपालय । तेन कथितं पापकर्मणा अलम्॥
- (g) राजगृहे नाम नगरे मिशाकारो नाम श्रष्ठी सुवर्शकोटी-नामधिपितरासीत्। एकदा भिवतव्यतावशेन तस्य श्रेष्ठिनो गृहे मारिरोग: सञ्जातः। राजगृहराजेन भिश्ततं। श्रयं मारि-रोग: सर्वत्र पुरे सञ्चरिष्यति। श्रतस्तस्य गृहे प्रवेशनिगमरोधः कारितः। कियता कालेनैव मारिरोगेश सर्वे गृहस्वामिप्रमुखः परिजना मृताः॥
- 1. Translate into English extracts (a) or (b) and any four of the remaining extracts given above:—
- 2. (a) On the banks of the Narmada there was a town called Dharmapura. There lived a king of the name of Dharma raja. One day as he was sitting with his ministers in his palace he heard a man crying outside. He ordered his door-keeper to see who the person was and why he was crying. The door-keeper went out and asked the man: "Who art thou and why art thou crying." The man said: "I am a Brahman. My son has been carried away by a tiger."
- (b) In the town of Brahmapura there lived a Brahman of the name of Vishnu Sarma. He was a poorman and had

four sons. Vishnu Sarma died when the children were young. The boys went to the house of their maternal uncle. He did not receive his poor nephews. A friend of their father seeing them in this plight said to them "Come, I shall help you. If you acquire learning you will be happy.'

(c) Thou fool, is not virtue of more worth than riches?

(d) If thy brother is in adversity assist him. (e) If thy sister is in trouble forsake her not.

Translate into Sanskrit extracts (a) or (b) and (c), (d) and (e).

#### - HISTORY.

1. Explain briefly in any one of the following cases how the British Government in India makes provision for :-

(1) The Public health.

(2) The Relief of the Famine-stricken.

(3) Education.

2. What marked differences are noticeable between the Subaha of Akbar

· and the Provinces of British India?

- Show the necessity which exists for a Supreme Central Government exercising control over the various provinces. What special matters of pullie concern are managed directly by the Imperial Government.
  - What causes and events led to the downfall ofcither (1) The Mahratta Confederany,

ar (2) The Sikh power.

Notice some of the chief battles which were fought between them and the British.

- What were the causes of the ill-feeling between England and Spain in the reign of Elizabeth? Relate the events that occurred in England which led Philip of Spain to despatch the Spanish Armada.
- Relate briefly the circumstances and events which can ad the war between France and England after the outbreak of the French Revolution
  - Explain clearly the meaning of the following terms: -

(1)The Subsidiary System.

(2)Ship-money,

(3)The New Model,

- The Anti-Corn-Law League.
- State who the following persons were, and note very briefly the historical events with which their names are connected :--

Asoka, Haider Ali, the Duke of Wellington, Lord Palmeraton

When and between whom were the following battles fought? Adla short note explaining the historical importance of each victory. Baxar, Wandewash, the battle of the Boyne, the battle of the Nile.

#### GEOGRAPHY.

1. (a) Distinguish between Artificial and natural Geographical Boundries.

b) What are the Prime Mcridians of Longitude used in Europe; Can any other Prime Meridian be used?

(c) Define:-

Estuary, Archipelago, Glacier.

2. Name the six principal articles of import into England, and the six principal articles of export. Name any country from or to which each comes or goes.

3. Give some account of Guiana, stating its position, climate and by

whom governed.

4. Name the chief harbours of Australia and the chief town on each.

5. What are the chief Islands in the Malay Archipelago? To what governments does each belong?

6. What is an alluvial plain? Name some of the chief alluvial plains of

the world.

7. Name any parts of the world where the level of the land relatively to the sea is changing. Explain how it is that the surface soil of Bengal is composed to a great depth of mud and sand.

8. What are earthquakes and where are they most common? State why

it is that no serious effects from carthquakes are felt in alluvial plains.

9. Draw a map of Africa and show in it:—
Khartum, Delagoa Bay, Pretoria, Kumassi, Sierra Leone, Gambia, the
Atlas Mountains and the rivers Zambesi and Niger.

## GEOMETRICAL DRAWING.

Note.—Answer to be in firm ink lines. Leave all lines of construction in pencil, and do not rub out anything.

1. Construct a right-angled triangled with hypotenuse of 3 inches, and an acute angle of 373°.

2. Describe three circles, each touching the other two,

their radii being  $\frac{1}{2}$ , 1 and  $1\frac{1}{2}$  inch respectively.

3. Find the mean proportion, between two lines, 3 inches

and 2.25 inches long.

4. Construct a regular pentagon with 2 inch side, and inscribe five semi-circles, each one touching two sides of the pentagon.

## ELEMENTARY PHYSICS AND CHEMISTRY.

1. Explain the construction and use of a thermometer.

2. Describe an experiment to show that heat causes a metal bar to expand.

3. What is meant by the pressure of the air? How is this pressure measured? Describe an experiment to show that the boiling point of water depends upon the pressure.

What is meant by refraction or (bending) of light? Describe any

experiments to illustrate refraction.

Describe carefully a Grove's batt by or any other arrangement you ave seen in use for producting an electric current.

Describe an experiment to show that when a candle burns nothing is

lost. How can hydrogen be prepared? Describe any methods you have

State some of the properties of hydrogen. scen.

- Describe the appearance of the following substances and name some of their properties and uses :- CARBON. SELEBUR, PROSPROEDES, ONDE OF MERCURY, COPPER SULPILATE. .
  - How could you distinguish between-

(a) Carbonic acid gas and oxygen,

(b) Silver and lead,

- (c) Nitrie Acid and a solution of Caustie Potash?
- 10. What weight of oxide of nureury is required to produce 21 grains of oxygen? [The combining weight of murenry is 200 and that of oxygen 16].

#### BOOK-KEEPING.

- 1. What is Book-Keeping? What are the two objects aimed at in every system of Book-Keeping.
  - 2. Write up the Cash Book for the following entries:-- '

			$\mathcal{L}$	at.	11.
- June	1st, 1890	Balance in hand at this date	 47	17	0
		Received from R. James	 27	7,	
**		, Paid R. Robinson	 15	10	()
"	15th, ,	, Rouse expenses	 19	1 1	65
23	37 21	Received from F. J. Smith	 2) t	17	5
"	33 31	Paid for Sunday expenses	 10	i	Ð
21	ʻ22 <u>2</u>	, R. James	 16	:5	€5

Balance the Cash Book and bring down the amount of cosh in hand.

What is understood by the signs Dr. and Cr. 3.

(i) What would a Dr. balance of an account imply?

(ii) How is it effected?

How many different classes of accounts are there! Nom 4. them. Give 3 examples of each.

5. What account shews the net profits?

What is understood by the term Capital? 6.

Write up the	following Capital A	ecount of J	ames	Brov	nn :-					
October 1st, 1890 Balance of Capital this day £ 1,000										
" 15th, "	Paid in the further some of £ 1,300									
_,, 30th, ,,	£ 1,000									
December 31st, ", Loss on business for the quarter £ 100										
Complete the Account and bring down the balance.										
7. Record the following transactions of Henry Robinson										
and finally close the	books:-									
•		• •		£	<b>3.</b>	d.				
January 2nd, 1892	Received from A	ent in adva	anee	50	0	0				
,, ,, ,,	", "В	, ,,	,,	125						
	" " C	_ ;;	"	250	0	0.				
" 12th, "	Paid into Bank			300	0	0				
" . 15th, "	" rent of Portla									
•	cheque		• • •							
" 24th, "	Drew Cash from Ba	and -	•••	25	0	0				
,, 31st, ,,	Paid attendant	***		3	6	8				
February 19th, ", H. Williams, on account of										
	repairs	* * *		4	14	0				
March 31st, ,,	,, Attendant			6	13	4				
Sent out the following accounts for rents due this										
day but paid by	the parties in advar	2ee on $2nc$	1.							
January, 1892.	•	•								
A 5	•••			50	0	0				
В	•••		• • •	125	0	0.				
$\cdot$ C $\cdot$ $\cdot$	•••			200	. 0	0.				
The balance of Capital of Henry Robinson on 1st January.										

The balance of Capital of Henry Robinson on 1st January, 1892, was £1,000.

Ascertain from the above transactions whether his Capital increased or decreased on 1st April, 1892, and by what amount.

8. What is the difference between the "Continental" and the English method of Closing the Ledger?

#### ... POLITICAL ECONOMY.

1. What is meant by Wealth? Distinguish Wealth from Capital.

2. Explain briefly the chief causes on which the productivenss of labour depends.

State the laws of "Increasing" and "Diminishing" Returns.

3. What is rent? State the law of rent. How does agricultural rent differ from the rent of a house?

4. Define interest. What determines the average rate of interest at a given time and place? Give illustrations.

5. Mention cases in which the value of a commodity is not determined by the cost of production. How would you then account for its value?

6. What led to the universal use of money? How comes it that a ruper

is able to buy goods?

7. Examine the statement:—The importation of goods which we could

produce at home is an injury to the nation and an evil to be deplored.

8. What is the value received by the people in exchange for the taxes they pay?

## ENTRANCE AND SCHOOL FINAL EXAMINATIONS, 1902.

#### ENGLISH.—FIRST PAPER.

[The attention of the candidates is directed to the fact that questions 1, 4 and 7 carry a total maximum of 20 marks out of a total of 50 for the whole paper.

Candidates are also requested to note that questions 9 (a) and

9 (b) are alternative: both of them must not be answered.

#### Section A.

1. Express in your own words the meaning of each sentence

in the following passage:-

In every path of practical activity, they have gone even with the best. There is no secret of war, in which they have not shown mastery. The steam-chamber of Watt, the Locomotive of Stephenson, the cotton-mule of Roberts, perform the labour of the world. There is no department of literature, of science or of useful art, in which they have not produced a first-rate book. It is England, whose opinion is waited for on the merit of a new invention, an improved science.

2. (a) Explain the following passage:—

But at his haughty challenge

A sullen murmur ran.

Mingled of wrath, and shame, and dread.

Along the glittering van.

There lacked not men of prowess,

Nor men of lordly race;

For all Etruria's noblest-

Were round the fatal place.

- (b) Describe clearly the position of the bridge defended by Horatins and his companions.
- 3. Explain the following:-
  - (a) The proud mart of Pisac. Queen of the western waves.

(b) A gailant feat of arms.

- (c) Horatius right deftly turned the blow.
- (d) The loud laugh that spoke the vacant mind.
- (e) Every rood of ground maintained its man.

#### Section B.

4. Re-write the following in simple prose, taking care to express each idea fully and accurately:—

I saw a king go riding by

On his white horse at break of day,

And oh, he rode so cheerily,

With all his troops in brave array.

"Whatever foe he shall assail,

This king," said I, "must sure prevail"

I saw a king go riding by With silent men on either side,

And oh, he rode so wearily.

"For sure, "he missed his bride."

Said one, "The Scots our King have sold To his enemies, for sake of gold."

5. Explain the following passage:—

E'en now the devastation is begun,

And half the business of destruction done;

E'en now, methinks, as pond'ring here I stand,

I see the rural virtues leave the land.

Down where you anchoring vessel spreads the sail, That idly waiting flaps with every gale.

Downward they move a melancholy band,

Pass from the shore and darken all the strand.

6. Describe the village of Auburn as it was before its desertion.

## Section C.

- 7. Explain the following:
  - (a) Disease is often a product of filth.
  - (b) He was quite master of the situation.
  - (c) The man that he sitates is lost.
  - (d) His motive was an unworthy one.
  - (e) He was persuaded, against his better jugdment, to give up the enterprise.
- 8. Explain the following passages. From which of the Tales' are they taken and to what events do they refer?

- (a) So these two wicked daughters, as if they strove to exceed each other in cruelty to their old father who had been so good to them, by little and little would have abated him of all his train.
- (b) As I was fond of retirement and deep study, I commonly left the management of my state affairs to your uncle, my false brother (for so indeed he proved.) I, neglecting all wordly ends, buried among my books, did dedicate my whole time to the bettering of my mind.
- 9 (a) i.—What persons are referred to in the following passage? Explain the words and phrases printed in italics.

"Sir Robert Melville," she at length said, "this scroll advises me to submit myself to necessity and to subscribe the deeds these hard men have brought with them as one who gives to the natural fear inspired by the threats of rebels and murderers."

ii.—Explain the following passage:—

"Art hath no enemy unless the ignorant," said the mortified doctor; veiling, however, his remark under the Latin version.

iii.—Who were Mary's attendants at Lochleven? Mention

some characteristics of each of them.

9 (b) i.—What persons are referred to in the following passage? Explain the words and phrases printed in italics.

'And this we do, praying you heartly to honour and make use of his skill; not only that we may do service to thy worth and valour, but that we may bring the controversy which is at present between us at an end, either by honourable agreement, or by open trial with our weapons, in a fair field.'

ii.-Explain the following passage:-

The exhortation was echoes from post to post; for it was the duty of the sentinels to raise the cry from time to time upon their periodical watch, that the host of the Crusaders might always have in their remembrance the purpose of their being in arms.

iii.—Give short account of the combat between Sir Kenneth and Conrade.

# ENGLISH GRAMMAR.—SECOND PAPER. Section D.

I. Parse every word in—
And near, the best of the alarming drum

Roused up the soldier ere the morning star.

- 2. Write down the past tense and past participle of the verbs: light, compel, spoil, swell, smite, steal, climb, forget, shoose, arise.
- 3. Write sentences containing "that" and "but" as Relative Pronouns.

Give instance of four Distributive Adjectives.

4. Explain the force of the prefixes and suffixes in the following words and state, where necessary, the full meaning of the complete word: displeasure, impious, forswear, bracelet, enrich, gainsay, inmate, overhear, undersell, withhold, safeguard, unmanliness.

#### Section E.

- 5. (a) "An Adverb never qualifies a Noun or a Pronoun." Name some apparent exceptions to this rule, and account for them by explaining your examples."
  - (b) "The sooner rain falls, the better it will be for the country."

Parse the words in italics.

6. (a) I will wait for you till Thursday or till you return; for I promised to do so.

Explain what parts of speech the words in italics are.

- (b) Give examples, by writing sentences, of the uses of the Conjunctions as, than, whether, provided that, too, while, stating what kind of Conjunction each is.
- 7. (a) Compose sentences containing—

(i) An Adverbial Clause of Time.

(ii) What, introducting an Indirect Question.

(iii) So that, implying Purpose.

- (iv) As long as.
- (v) Either, as a Conjunction.
- (b) Show by examples the uses of the Prepositions towards, after, as to; and make the last-mentioned govern a clause.

#### Section F.

8. Analyse, in tabular from:

It is a remarkable fact that when the Duke was passing through Belgium in the preceding summer of 1814, he particularly noticed the strength of the position of Waterloo, stating to those who were with him, that if it should ever be his fate to fight a battle in that quarter for the protection of Brussels, he should endeavour to do so in that position.

9. Rewrite in the Indirect:

Jason asked, "Is it true, what the heroes tell me, that I am heir of that fair land?"

"And what good would it be," answered Cheiron, "if

you were?"

"I would take it and keep it."

"A strong man has taken it and kept it long. Are you stronger than Pelias?"

"I can try my strength with his," said Jason.

But Cheiron said: "You have many a danger to go through before you rule Iclcos. Promise me two things; speak harshly to no one whom you may meet, and stand by the word which you shall speak."

#### URDU.—THIRD PAPER.

## 1. Translate into English:-

پلوئے اور دوسرے جانورونکے جو حقوق هم لوگ پر هیں (و) اب میں اسکا بیان کیا چاهتا هون - تعجب کی بات هے که اگرچه وے هر روز همارے پاس رهتے هیں تو بھی هم انکی حالت پوری پوری نہیں جانتے هیں - کوئی کوئی اُنہیں سے زیادہ تو همارے پاس رها کرتے هیں اور دوسترن کا کام دیتے هیں - هر چند که وے بول نہیں سکتے تاهم اُنہیں اب ایسی محبت هے جو آدمی زاد میں بہت کم پائی جاتی هے اُن جانوروں پر جتنی مہربانی کرنی چاهئے اُتنی اکثر لوگ نہیں جانوروں پر جتنی مہربانی کرنی چاهئے اُتنی اکثر لوگ نہیں

کرتے هیں۔کیونکه سب آدسی یہد نہیں جانتے که وے همارے کتنے کام کے هیں۔ جو جانور آهارے آس پاس دیکھائی دیتے هيں جيسے چهپکلي جو همارے ديواروں پر اکثر ديکھي جاتي هين يا گلهري جو پيرون پر رها کرتي هين يا چهگادر پرند اور کیڑے مکوڑے جو تکلیف دی نہیں ہوتے اُن سب پر ہمکو مُسْرِّدِانَ هُونَا چَاهِ يُحَدِّ خَاصَ كُو أَنْ جَانُورُونَ پُر جُو هُمِكُو پیارے معلوم هوتے هیں اور جنکو هم پالتے هیں أنپر زیادہ قر مہربانی کرنی چاھئے - ھمکو ھر روز اُنکی خبرگیری کرنی چاھئے - اگر ھم کرنی چاھئے - اگر ھم کرنی چاھئے - اگر ھم ایسا کریں تو اُسکے بداے میں وے ھمارے ساتھہ ضرورھی كارهي دوستي بوديدگي - اگر ايسا نهو تو بهي همكو مهرباني كرنيكًا بدله تو ضرور هي مليكا - أنهر مهرباني كرّن سَ هُم میں مہربانی کرنیکی خصلت پیدا هوگی اور هم آدمزاد پر زیادہ تر مهربانی کرنے لگینگے - جان بوجهه کر اُن جانوروں کو بے سبب تکلیف نہیں بھونچانا چاھئے۔ ھیارے ھی طرح أنكو بهي خدانے بنايا هـ - جيسا برتاؤ هم أسكے خلق كے ساتهم كرينك ويساهي پهل پاوينگے \*

مشہور رائي درگاوتي مہوبا کے راجہ چنديل کي بيتي (١١) بهت هي خوبصورت اور خوب سيرت تهي-جبلپور کے پاس گترهه مندلے کا راجه دائيت شاہ اُس سے بياہ کرنا چاهتا تها اليکن راجپوت لوگ ايسي شادي کو اچهي نہيں سمجهتے تھے۔ قاهم درگاوتي کے باپ نے گرهه مندلے کے راجه سے پہلے اپني پشت پناهي کا رعدہ ليکر اپني اتوکي کي اُس سے شادي کردي دئيت شاہ تهورے دنوں ميں مرگيا اور درگاوتي تخت پر بيتهه گئي ۔ سنه ١٢٥١ع مين کرا مانک پور کے نواب پر بيتهه گئي ۔ سنه ١٢٥١ع مين کرا مانک پور کے نواب پندرہ سو هاتهي اور اتهه هزار سوار اور پيادے ليکر اُسکے پندرہ سو هاتهي اور اتهه هزار سوار اور پيادے ليکر اُسکے

ساتهہ اتنے کو نکلی ۔ اُسوقت رانی نے زرہ بکتر پہل سو پر تاج شاھی رکھکر اور تیرو کہاں پاس رکھکر ھاتھی پرسے سیاھیوں کو حکم دیتی تھی۔ سیاھیوں نے اوس بتی دلیری سے مغل لوگون کو دو بار شکست دی اور تیسری بار رانی درگاوتی کے اترکے نے اُنکو بیچھے ھتا دیا لیکن سگار گڑھہ کی جنگ میں ھار کر گڑھہ منتیلے کے اوت آئی اور یہاں کسی کوء کے کھو میں چھپ رھی آصف خان ھارا تھا لیکن جب اُسکی توپین آ پھونچین تب رانی نے یہ دیکھکر کہ اب دشہن کے ھاتھہ سے بچنے کی کوئی صورت نہیں ھے مہاوت سے دشہن کے ھاتھہ سے بچنے کی کوئی صورت نہیں ھے مہاوت سے کتاری نیکر اپنے پیت میں مار لی «

(;

पालतू श्रीर दूसरे जीवों की श्रीर जो हमारा कर्तट्य है अब में उसका वर्णन किया चाहता हूं। श्राद्य की वात है कि यद्यपि वे प्रतिदिन हमारे निकट रहते हैं तो भी उनकी दशा हम पूरी र नहीं जानते। कोई कोई उनमें से बहुधा हमारे समीप रहते हैं श्रीर मित्र के समान काम देते हैं। यद्यपि वे वोल नहीं सकते तो भी उनमें एक प्रकार का ऐसा प्रेम है जो मनुष्यों में बहुत कम पाया जाता है। इन जीवों पर जितनी दया करना उचित है लोग उतनी नहीं करते क्योंकि सब मनुष्य यह नहीं जानते कि वे हमारे कितने काम के हैं। जो जीव हमारे श्राम पाल दिखाई देते हैं जैसे खिपकली को हमारी दीवारों पर बहुधा देखने में श्राती है वा गिलहरी जो वृक्षों एर रहती हैं वा चमगीदड़ पत्ती या कर हम को हे जो हा दुःखदाई नहीं होते उन सब पर हम का द्या रखनी चाहिये। विशेष कर उन जीवों पर जो हम की प्रिय लगते हैं। श्रीर जिनकी

हम पालते हैं अधिक द्या करनी उचित है। हम कें।
प्रतिदिन उनकी सुध लेनी चाहिये और उनके सुख का
ध्यान रखना चाहिये। यदि हम ऐसा करें तो उसके बदले
में वे हमारे साथ अवश्य गाढ़ी प्रीति करेंगे। यदि ऐसा न
हो तो भी द्या का बदला हमकी अवश्य मिलेगा। उनके
कपर द्या करने से हमारा स्वभाव द्यालु हो जायगा और
हम मनुष्यों पर अधिक द्या करने लगेंगे। जान बूम कर
बिना कारण कभी इन जीवों का क्रेश पहुंचाना नहीं
चाहिये वे भी हमारे समान परमेश्वर से बनाये गये हैं।
जैसा बर्ताव हम उसकी सृष्टि के साथ करेंगे वैसाही फल
पावेंगे॥

H. .

प्रसिद्ध रानी गुद्दांवती महोबे के राजा चन्देल की कन्या बहुत सुन्दर श्रीर गुरावान थी। जबलपुर के पास गढ़मंडले का राजा दलपितशाह इस से व्याह करना चाहता था। परन्तु राजपूत लोग ऐसा व्याह योग्य नहीं सममते थे। तथापि दुर्गावती के पिता ने गढ़मंडले के राजा से पहिले अपनी रक्षा का बचन ले लड़की उसे व्याह दी। दलपित-शाह थोड़े दिन पीछे मर गया श्रीर दुर्गावती राजासन पर बैठ गई सन् १५६४ई० में कड़ा सानिकपुर के नवाब श्रासिफ़ ख़ां ने गढ़मंडले पर चढ़ाई की। तब रानी दुर्गावती १५०० हाथी श्रीर ८००० सवार श्रीर प्यादे लेकर उसके साथ लड़ने की निकली। इस समय रानी जिरहवख़र पहिन सिर पर मुक्ट घर श्रीर धनुष बान पास रख के हाथी पर से सिपाहियों की श्राद्धा देती थी। सिपाहियों ने इस समय शूरता से मुगल लोगों की दो बार पराजित किया। श्रीर

तीसरी बार रानी दुर्गावती के लड़के ने उनका पीछे हटा दिया। परन्तु सिगाड़गढ़ के लड़ाई में हार कर गढ़मंडला की लौट आई श्रीर यहां किसी कन्दरा में छिप रही। श्रासिफ़ ख़ां हारा था परन्तु जब उसकी तोपें श्रा पहुंची तब रानी ने यह देख कर कि अब गत्रु के हाथ से बचने का कोई उपाय नहीं है महाबत के हाथ से कटारी लेकर अपने पेट में मार ली॥

## ARITHMETIC AND ALGEBRA.

FIRST PAPER.

(N. B.—Only ten questions have to be answered.)

1. Fine the G. C. M. and also the L. C. M. of 49:383 and 142569.

2. Simplify 
$$\frac{1.5}{075} \times \frac{34}{11} \times \frac{1.875}{21} \times \frac{3.5}{3.75} - 16$$
.

- 3. Find by practice the value of 246g maunds of sugar at Rs. 13-5 as. 4 pies per maund.
- 4. A and B have between them 132 horses; 25 of A's=142857 of B's. How many had each of them?
- 5. Six men and five boys can do a piece of work in 7 days: they work at it till they have completed 7 of it; then two of the men leave and two more boys come. How long will the work be in hand, if a boy does half as much work as a man?
- 6. If I lend a friend Rs. 1,250 at 4 per cent, simple interest and tell him to keep it until principal and interest amount to Rs. 1,666-10-8, how long will be have it?

7. Simplify (i) 
$$\frac{a^5 - a^4b - ab^4 + b^5}{a^4 - a^2b - a^2b^2 + abc}$$
and (ii) 
$$\frac{a^3 + b^3 + c^3 - 3abc}{(a - b)^2 + (b - c)^2 + (c - c)^2}$$

8. Extract the square root of  $16x^3(x-2)-8x(1-3x)+1$ .

9. Solve 
$$\frac{4x+17}{x+4} - \frac{5x+36}{x+7} = \frac{2x+7}{x+3} - \frac{3x+19}{x+6}$$
.

10. Find x and y from the two questions.

$$a(x+y)+b(x-y)=2a$$
  
 $y(a+b)-x(a-b)=2b$ .

11. I wished to give a certain number of old men 1 anna 8 pies each, and I found that I had not money enough in my purse by 11 annas; so I gave them I anna 5 pies each, and then I had money enough and 3 annas 3 pies to spare. Find the number of old men.

12. If a:b=c:d, prove that  $a^2b-3$   $ac^2:b^3-3$   $ad^2=a^2+5c^2:b^2+5d^2$ .

## MATHEMATICS.—SECOND PAPER.

- 1. (a) Equal triangles on the same base, and on the same side of it, are between the same parallels.
  - (b) The straight line which joins the middle points of two sides of a triangle is parallel to the third side.
- 2. (a) Describe a parallelogram that shall be equal to a given triangle, and have one of its angles equal to a given angle.
  - (b) Construct a parallelogram, which shall have the same area and perimeter as a given triangle.
- 3. Describe a square that shall be equal to a given rectilineal figure.
  - 4. (a) The opposite angles of any quadrilateral inscribed in a circle are together equal to two right angles.
    - (b) A triangle is inscribed in a circle; shew that the sum of the angles in the three segments exterior to the triangle is equal to four right angles.
  - 5. Inscribe a square in a given circle.

- 6. (a) The perimeter of one square field is 480 feet, and of another 1,400 feet. Find the perimeter of a third which is equal in area to the other two.
  - (b) The area of an insosceles triangle is 168 square feet, and its base is 14 feet; find its equal sides.
  - (a) The diagonals of a parallelogram are 34 feet and 24 feet, and one side 25 feet; find its area.
    - (b) A wire may be so bent as to enclose a square whose area is 121 square inches. If the same wire were bent into the form of a circle, what would its area be? [\$\pi = 3!\$]
- 8. The parallel sides of a trapezium are 60 and 90 yards, and the other sides are 26 and 28 yards; find its area.
  - 9. Draw a plan and calculate the area of a field from the following field-book, the lengths being expressed in links

30 From	to A 1,000 500 C	range to A
o 50 From	to C 600 450 300 150 B	50 0 turn left
From	to B 800 500 300 A	40 60 go Easa

#### ARABIC.—FIRST PAPER.

1. Translate the following into English:

لها سلم نجام بن سلمة الي موسي بن عبد الله الاصفها في (۵) المستاً دي ما عليه من الاصوال عاقبه فتلف في مطالبته - فاجتبع

بعض الرؤساء بابي العيناء فقال الأما عندك من خبر نجاح - فقال الموالعيناء فوكزه موسي فقضي عليه - فبلغت كلهته موسي ثم لقي ابا العيناء في الطريق فهدده - فقال له ابو العيناء اتريد ان تقتلني كها قتلت نفسا بالامس \*

صلى اعرابي مع قوم فقراً الاسام قل ارأيتم ان اهلكني (b) الله و من معي - فقال الاعرابي اهلك الله و حدل اي شي كان من الذين معك ققطع القرم الصلوة من شدة الضحك \*

فلها سهم الخليفة من هذه الابيات قال و الله طيب و (٥) الله مليم لله درك يا نعم -ما افصم لسانك و ما اوضم بيانك ولم يزالوا في فرح وسرور الي نصف الليل -ثم قالت اخت الخليفة اسهم يا امير الهؤمنين اني رأيت حكاية في الكتب عن بعض ارباب الهواتب - قال الخليفته و ما قلك الحكايته و ققالت له اخته اسهم يا امير الهؤمنين انه كان بهدينة الكوفة صبي يسهي نعمة بن الربيم و كان له جارية يحبها و تحيه و كانت قد تربت معه في قرش واحد - فلها بلغا و تحيد و حالت الذهر بنكايته و جار قهكن حبهها من بعضهها رما هما الدهر بنكايته و جار عليهما الزمان بافاته و حكم عليهما بالقراق و تحيلت عليهما الوشاة حتى خرجت من داره و اخدوها سرقة من مكانه \*

2. Re-write, very carefully, with discritical marks, the underlined words and expressions in the above extracts and explain them clearly.

عند الما في الله هندا حل صخر \* دعت دركا و بشرت الهنودا التا في الله هندا حل صخر \* دعت دركا و بشرت الهنودا فان تفخر بحدزة حين ولي \* مع الشهداء محتسبا شهيدا فان تفخر بحدز \* ابا جهل و عتبة و الوليدا

وقتلنا سراة النساس طرا \* و غنهنا الولايد و العبيسدا و شيبة قد قتلنا يوم ذاكم \* علي السوابه علقسا جسيسدا فبؤ من جهنسم شسر دار \* عليها لم يجد عنها محيدا وما سيان من هو في جحيم \* يكرن شرابسه فيها صديدا ومن هوفي الجنان يدر فيها \* عليه الرزق مغتبطا حهيدا

4. Re-write the poetical extract with discritical marks clearly as you possibly can.

5. Write out the allusions referred to therein.

6. Analyse the following:-

تنام عینک و البظاوم مذاتید و یدعو هایک و عین الله ام تنم

7. Write out any six Arabic lines, that are not in this question paper, from your memory and translate them into English. You have to supply them with discritical marks.

#### ARABIC.—Second Paper.

1. Translate into English:-

ان غلاما كان الجدة و الصادق رضي الله عنه صب الداء علي يدي صده يربر إسرالايام نستطالاناء من يده في الطشت قطار الباء علي ثربه فنظر البه نظرة منكرة فتال الذلام يا مولاي را كاظهيس الفيظ قال جدة و كفوت غيض فتال الذلام و الد في عن الغاس قال جنفر دفوت عنك فقال الغلام و الله يحب المحسنيان فال جنفر الذهب فانت حرارجه الله تعالى و اك الف دينار من مائي و دا من بعض كرامائيم و حسن اخلاقهم النائن في ران كان جائنا - هنو عائل خير من طديق جانل - الفتان اشد من القالى - السعي مأي و الاتهام من المه تعلي - زينة المرع حسن الخلق و الادب سلامة الانسان بساست الساس سورر المائم من العام و راحة الجسم في قلة الطعام - رحم سرور الله من داي واحة الجسم في قلة الطعام - رحم الله من داي واحة المحتل و صدق المقال وصدق المقال

كلاهها علامتان لصاحب الكبال - الجنس الي الجنس يبيل - الهبنرين كانوا من اخوان الشياطين الحياء جزء من الايبان - خذ العقو أمر بالهجرون و اعرض عن الجاهلين - اذا جاء الحق زهق الباطل - الجنة ، تحت الدام أمهاتكم - ان الحسنات يذهبن السيأت - من حفر ببراً لاخيه فقد وقح فيه - حب الدنيا راس كل خطيئة - حسن الادب يستر قبم النسب \*

2. Translate into Arabic with diacritical marks:—

People take to the customs of their rulers. Love of a thing makes one blind and deaf. Die before you die. I saw four women and three men passing on the road. The learned are the successors of prophets. Ahmad and Omar are fast friends. Fear not scandal in the way of God. He is not of us who is not kind to the young and respectful to the aged. A tyrant injures none but himself. I travelled from Basrah to Baalbak. He who is not thankful to man cannot be grateful to God. Zaimab is Omar's sister and wife of Ahmad. Ibrahim was the father of the Arabs. He who does not forgive shall not be forgiven. Protect yourself from the fire of hell. He who comprehends self comprehends God.

#### PERSIAN.—FIRST PAPER.

I.—Give the meanings of the following words in English and explain their constructions:—

بازرگان ـ دشنام ـ دشرار ـ لاجرم ـ بربط ـ گرزن ـ سهرغم ـ بربط ـ کرمابه ـ دیرلاخ

II.—Trans'ate the following passage into English:—

معصیت از هر که صادر سود نا پسندست و از علما نا (a) خوب تر که علم سلاح جنگ شیطان است - رخدارند راچون به اسیوی برند شر مساری بیش برد :

و آنجا کاررانسراے دیدم کسے دارالوزیرمیگفتنددر (۵) آنجا قصب فی شفت و دیگو دیبج نا و در اشکرت زیر غیاطان نشینند و در بالائے رفا ان۔از قیم آن پرسیدم کد اجری ایس یتم چند ست گفت هر سال بست هزار دینار مغربی بود- اما ایس ساعت گوشه ازان خراب شده عبارت میکنندهر ماه یک هزار دینار حاصل دوازده هزار دینار سال و گفتند که درین شهر بزرگتر ازین نیست و بهقدار این دویست خان باشد

اکثر اوقات در مههات ضروریه به پادشهزادها کامگار (۵) بغت بیدار و اُمراے عالی مقدار مدخط نوازش نهط فرمان می نویسند و کافی بر عنوان منشور که منشیان عطاره آثار به نوئینان والااقتدار نگاشته باشند سطرے چند تحریر میفرمایند ی

III. Write down the meanings of the following passages in simple Persian:—

بجلائل أموريزداني و بنائل شيون سلطاني بعنايت به غايت سبحاني \_ انسان از سائر موجودات بعقل و كارداني مختص كشته محل تكليف اوامرو نواهي و مورد باز پرس الهي گرديده و چنان مخلوقے كه انهرذج صنائح غير متناهي است و مراة اسرار كوني و الهي ببازي و براے بازي نيا فريده اند \*

IV.—Write down in Persian what you know about عمره and his book عمره عبية

٧.—Translate the following couplets into English and explain any idioms contained therein:—

بزرگے هنرمند آفاق بود \* غلامش نکوهیده اخلاق بود ازین خفرقے موئے بالیده \* بدے سرکه در روے مالیده چو نعبانش آلوده دندان بزهر \* گرو برده از زشت رویان شهر مدامش بروے آبچشم سبل \* دویدے و بوئے پیاز از بغل گره وقت پختن برابرو زدے \* چو پختند باخواجه زانوزدے دمادم بدنان خوردنش همنفس \* وگر مردے آبے ندادے به کس ندگفت اندرو کارکردے تهچوب \* شبوروزازوخانه درکندوکوب گئے خاروخس در ره انداختے \* گھے ماکیان دو چه انداختے

VI.—Explain in English or Persian the meanings of the following couplets:—

زتابند یاقون ورخشنده اعل « خرامنده را آتشین گشت نعل به تو نقش توزان نهودم نخست « که تانقش سی بر توگرده درست زنان را ترازو بود سنگ رن « بود سنگ مردان ترازو شکن سام که سیهوغ پسرگیرداشت « بود جوان گرچه پسر پیرداشت روز \_ از آنجا که فراغے رسید « باد سلیهان به چراغے رسید

VII.—Translate into English:—

### PERSIAN.—SECOND PAPER.

Translate the following into English:-

آورده اند که عربے بیابان نشین به شهر بغداد در آمد (۵) دانوائی دید که گردها چون قرص قبر از افق منیر طلوع کرده دعرب بیجاره که ببوے نان رصق حیات یافتے۔ چون آدے نان دید جبّهٔ صبر چاک زد و پیش نانوا آمده گفت اے خواجه چند بستائی که مرا سیر نان سازی - نائوا با خود تاملے کرد که این کس به یک من نان سیر شود - غایتش دو تاملے کرد که این کس به یک من نان سیر شود - غایتش دو من و از سه من تجاوز نتواند کرد - گفت نیم دینار بده و چندانچه بتوانی نان بخور - عرب نیم دینار بداد و براب دید بنشست - نانوان نان می آورد و عرب باب تو کرده می خورد تا بها از نیم دینار بگذشت و به چهار دانگ رسید خورد تا بها از نیم دینار بگذشت و به چهار دانگ رسید

و ازان هم متجاوز شدید دینار تهام شد - نانوارا تعهل نهاند و گفت یا اخا العرب بدان خداے که ترا قوت نان خوردن برین وجهم کراست فرسود با من بگوے که تا کی نان خواهی خورد - عرب جواب داد که اے خواجه بے صبری مکن تا این آب می رود من نیز نان می خورم \*

ميرزا مهدي مي نويسد كه عسكر طويال عثمان كمان پيش صد هزار مرد بودند - نادر بعزم مقابله يا طوپال عشمان در حركت آمد بنابر قول ميرزا مهدي دروازه هزار نفر در بغداد گذاشته خود با بقیه بطرف سامر که قریه ایست دو کنار دجله روي نهاد - اردوے عثماني قريب دلا مزبور واقع شدلا بود -جنگی بسیار شدید و خونخوار اتفاق افتاه - در اوّل آ غلبه ایرانیّان را شد و سوارهٔ ایرانی بیک حمله خصم را هزیمت داد - اما پیاده عثمانی پاتے جلادت پیش نهاده فست از حریف برد - فوج از آعراب که نادر را از ایشان چشم داشت مدد بود بر یک طرف اشکر وے حمله بردند و مردان کار که در تهام روز در آفتاب تابستان عربستان بگیر و دار اشتخال داشتنگ بالا خرم از شدت گرما و حرارت أَفْتَابُ غَامِةً عَطْشَ دُستُ شَانَ الزُّ كَارَّ مَانَدُ - خُونَ زَادُرَ دُو •سرتبه درمیان دشهن اسپش گلوله خورده بر زمین آفتاد و به این سبب علم دار وے او را پنداشته روے بگریز نہاد ۔ جديع اين اسباب دست بهم داده سبب عثماني فتم شدي

2. Translate the following into Persian :-

(a) The first was the conquest of Cashmir. That celebrated kingdom is an extensive plain, situated in the heart of the Himalaya mountains, and more than halfway up their height. Placed, by its elevation, above the reach of the heat of Hindustan, and sheltered by the surrounding mountains from the blasts of the higher regions, it enjoys a delicious climate, and exhibits in the midst of snowy summits, a scene of continual verdure, and

almost of perpetual spring. Trees belonging to different climates are scattered over its surface, while fruits of various kinds and flowers of innumerable descriptions are poured forth with spontaneous profusion over the hills and plains.

(b) While Humayun was at Badakhshan, where he remained for many months Camran returned from Sind and surprised Cabul. Humayun marched against him in the dead of winter, defeated his troops and drove him within the walls. On this and all subsequent occasions during the siege, Humayun put his prisoners to death in cold blood, which Camran retaliated by still greater cruelties, and even threatened to expose young Akbar, who had again fallen into his hands, to the fire of the cannon, if they continued to batter the town.

### SANSKRIT.—FIRST PAPER.

1. प्रस्ति मन्दराभिधाने पर्वते दुद्गितो नाम सिंहः।
स च सर्वदा पणुबधं बिद्धान एवास्ते। ततः सर्वैः पणुभिमिलित्वा सिंहो विज्ञाद्यः सृगेन्द्र किमिति सर्वे पणु च्लेदः क्रियते।
वयसेव भवदाहाराधें प्रत्यहमेकैकं पणुं ढीकयामः। सिंहेने कां।
एवमस्तु। ततः प्रभृत्येकैकं पणुं ददतः समासते। प्रथ कदाचिद् सदुशशकस्य कस्यचिद् वारः समागतः। से। जिन्तयत्॥

त्रासहेतोविनीतिस्तु क्रियते जीविताशया। पञ्चत्वञ्चेद् गमिष्यामि कि सिंहानुनयेन मे॥

- (a) Expound the samasas of मन्दराभिधान and प्रत्यहम्.
- (b) State the धानु and प्रत्यस in विद्धान. Give its Parasmaipadi equivalent form of the same part of speech.
- (c) Re-write the following sentences, changing the passive into the active construction.
  - (1) सर्वैः पशुभिनिं लित्वा सिंहो विज्ञातः।
- (2) सुगेन्द्र किमिति सर्वपशुच्छेदः क्रियते ॥
- (d) Parse इदस:
- (e) Reproduce into your own Sanskrit the sloka at the end of the extract.

# 2. उत्तमं प्रिशिपातेन शूरं भेदेन योजयेत्। नीचमलपप्रदानेन समग्रिकं पराक्रमैः॥

Give briefly the story illustrative of the counsel embodied in the couplet quoted above.

3. कृत्रिमं नाशमभ्येति वैरं द्राक् कृत्रिमैगुंगी: | प्राणदानं विना वैरं सहजं याति न वयम् ॥

(a) Render the above into English.

- (b) Characterise and illustrate कृतिमम् (धेरम्) and बहने (बैरम्).
- 4. Give the sense of the following:-
- (a) सतां साप्तपदं मैत्रमित्याहुर्विवुधा जनाः ।
- (b) आरम्भगुर्वी ह्ययिगी क्रमेग लघ्वी पुरा वृद्धिमती च पञ्चात्। दिनस्य पूर्वाहुंपराहुंभिन्ना-स्वायैव मैत्री खलसज्जनानाम्॥
- 5. Quote slokas from Chanakya and Hitopadesh-Sara-Sangrah, bearing upon the following:—

(a) The evils from the association with or the neigh-

bourhood of हुर्जन.

(b) In praise of पौरुप.

- (c) The superiority of intellect to brute force.
- 6. Write in a few words in your own Sanskrit on the subject of गुरूणा पूजा.
  - 7. Translate into English:
  - (a) स्रघोऽधः पश्यतः कस्य महिमा नोपजायते । उपर्युपरि पश्यन्तः सर्वे एव दरिद्रति ॥
  - (b) तां सत्यनामां दूढ़तोरणार्गलां ।
    गृहैर्विचित्रैरूपणोभितां शिवाम् ।
    तुरीमयोध्यां नृषहस्त्रङ्कुलाम्
    श्रास वै शकसमा महीपतिः ।

### SANSKRIT.—SECOND PAPER.

- 1. Translate into English any five of the following extracts:
  - (a) यस्य रमृत्या च नामीत्त्या तपः पूजाक्रियादिखु।
    न्यूनं सम्पूर्णतां याति सद्यो वन्देतमच्युतम्॥
- (b) वार्षशः कराशश्चिव विद्यामर्थञ्च साधयेत्। विद्या कर्षा त्यक्षा कृती विद्या कर्षा त्यक्षा कृती धनम् ॥
  - ं (०) दृष्टिपूर्तं न्यसेत पादं वस्त्रपूर्तं पिबेज्जलम् । । । प्रास्त्रपूर्तं वदेद् वाक्यं मन:पूर्तं समाचरेत्।।
    - (d) प्रमित्रं कुरुते मित्रं मित्रं द्वेष्टि हिनस्ति च। कम्मे चारभते दुष्टं तमाहुमू ढ़चेतसम्॥
- (e) उपेष्ठस्य पौर्णमास्यां तिथी पति व्रतयः स्त्रियो यटं पूजयन्ति उपवसन्ति च। श्रिस्मंस्तिथी पुरा सत्यवतो भार्य्या सावित्र्या यमेन नीयमानः सत्यवान् मोचितः। ततश्चेदं अतं भूतने संप्रवृत्तं। श्रस्य व्रतस्याचरणेन भर्तुदीर्घायुस्त्वं सम्भवतीति मन्यन्ते । सर्वाश च भत्तृं मतयः स्त्रिय इदं व्रतमाचरन्ति॥
- (f) सखे श्रूयतामिदानीमादितः प्रभृति मम वृत्तान्तः।
  मम जन्म पद्मनगरे। मम पितरी पञ्च सादराश्च पञ्चल्यः
  मापनाः। युष्मद् देशादागतः क्षेऽिप विषयुवा मासुप्रयेमे।
  सप्तवर्षागयद्य तस्य नष्टस्य। क्षिं करोम्यहमनाथा। क्ष् गच्छामि
  मन्दभाग्या। त्यमेव श्राणमेधि॥
- 2. Translate into Sanskrit (a) and (c) and any other four of the following exatracts:
  - (a) Behold this beautiful garden in which the pedcocks are dancing and the bees are humming sweetly and sucking honey.

(b) Where the water of the tanks is clear and the air is cool.

(c) Where the koil is melodicular cooing and other birds of various colours are disporting themselves.

(d) Where the lotus and many other flowers are blooming and the trees are bent down with the weight of their fruits.

(e) By the command of the Lord of the Universe, the

sun shines at day and the moon at night.

(f) By His command the winds blow and the fire burns.

(g) By His command the clouds send rains, rivers flow and the earth produces food for all living beings.

#### HISTORY.

- 1. Explain the nature of Local Self-Government and state what forms of it exist in India.
- 2. Write down the names of the 13 provinces of India under British administration; what is the title of the head of the Local Government in each and give the names of the head-quarters of each Local Government.
- 3. How do you account for the small number of large towns in India?
  - 4. What were the chief causes which led to
    - (1) The Civil War in the reign of Charles I.
    - or (2) The Revolution of 1688.
  - 5. Write a brief narrative of.
    - (1) The Young Pretender's Invasion.
    - or (2) Bonaparte's Expedition to Egypt.
  - 6. What changes in the Government of India were made by
    - (1) The Regulating Act.
    - (2) Pitt's India Bill.

When was the East India Company

- (1) founded; and
- (2) abolished;

and under what eircumstances?

- 7. Narrate briefly the leading events in the life and career of (1) Sivaji.
  - or (2) Tippu Saltan.

1 ... 8. Write brief notices of the following persons, with dates: Vikrámáditya, Prithvi Rajah, Raja Todar Mall,

Sir Robert Peel, Earl of Chatham, Sir Walter Raleigh.

9. Notice very briefly the events for which the following places are celebrated in history, with dates :-

Arcot, Killiccrankie, Jelalabad, Torres Vedras, Somnath,

Sebastopol.

#### GEOGRAPHY.

1. Draw a map showing the boundaries of the Russian Empire, and its chief rivers, mountain ranges, and largest cities.

2. Mention the principal lakes and inland seas of the world.
3. What different races of mankind inhabit Asia, and how are they distributed?

Name the chief crops cultivated in India, and the regions

where they grow.

5: What regions of the earth are still unexplored or little known?

6. Explain the following terms, with an example of each: Estuary, waterparting, delta, peninsula, ocean-current.

- What, and where, are the following?—Congo, Hecla, Lucerne, Hoango, Malta, Bangkok, Tokyo, Hamburg, Baghdad, Venezuela, Cuba, Victoria.
- 8. Explain what is meant by climate and temperature. What are the causes of the difference of temperature on different portions of the earth's surface? What are the Tropical Regions, and why are they so called?

9. How would you find the difference of time between Cal-

cutta and Bombay?

10. What is an alluvial plain, and how was it produced?

11. How do you explain the presence of sea-shells on the tops of some mountains, and of the fossil remains of animals at a considerable depth under ground?

## X GEOMETRICAL DRAWING.

Note.—Scale and figures to be neatly inked in: construction lines to be left in pencil.

1. A length of 100 yards is found to measure 35 inches on a map. Construct a scale to read yards, making it not less than 6 inches long.

- 2. Draw a circle of \( \frac{3}{4} \) inch radius. Cut off from this

circle a segment which shall contain an angle of 30°,

3. Draw two straight lines AB, CD, each three inches long; such that C is \( \frac{3}{4} \) inch from A, and D 1 inch from B. Draw a straight line which would bisect the angle formed by the two straight lines if they were produced.

4. Construct a trapezium ABCD. Side AB is 1 inch long: diagonal AC makes 30° with AB, and is 1¾ inches long: diagonal BD, 1½ inches long makes 60° with AB.

Figure dimensions of AD, DC and CB.

5. Construct a triangle whose sides are 2 inches, 21 inches and 23 inches. Inscribe a circle within the triangle; also describe a circle about it. Figure the radii of the circles.

### . ELEMENTARY CHEMISTRY AND PHYSICS.

Marks will be given for neat diagrams.

1. Describe an experiment showing that when any boody is weighed in water it will suffer a loss of weight.

A small piece of iron weights 91.5 grains in air and 82

grains in water. What is its specific gravity?

2. (a) How is the pressure of the atmosphere measured?

...(b) Explain the action of a simple air pump.

- 3. What effect has an electric current on a freely suspended magnetic needle?
- 4. Light from a narrow slit falls on a glass prism. Sketch the path of the ray through the prism and describe what happens.
- 5. Describe one of the balances used in your school. What kind of weights were used?
  - 6. Describe the appearance of the following substances:—Zinc sulphate, Magnesia, Lead acetate, Alum, Caustic Potash, Aluminium.
- 7. How can crystals be produced? Describe any crystals you have seen.
- 8. What is meant by the law of combination in fixed proportions? How could you show that this law is true.

#### BOOK-KEEPING.

1. How many different classes of accounts are there? Name them. Give three examples of each class.

2. What is meant by—

(a) A merchant's stock or capital?

(b) His liabilities and assets? and

(c) His net capital?

3. Describe fully the process of balancing and closing the Ledger.

4. What is meant by—

(a) Transferring a balance?(b) Bringing down a balance?

5. Describe the mode of ascertaining the whole amount of received and paid by a merchant during the year or any givén time.

6. What is gained by not journalising cash transactions.

· Make journal entries for the following:

Drew cheque 30-6-00 Received Henry 12-5-00for private Williams' account expenses\_ ... £ 100 for repairs ... £ Ground rent due 15-6-00 Paid for repairs. (cheto Portland estate for quarter que) ... " 15 "

Depreciation to be Sent out the 30-6-00 · following acwritten off lease of countsforrent property due:-

John Smith... "50 Drew cheque for William Roprivate expenses , 100 binson 50

Thomason

Brown ..., 125 James Jones "

- 7. What are the principal advantages of the "Continent tal" system?
- 8. Record the following transactions of Henry Jackson, and ascertain from them whether his capital increased or decreased on 1st April, 1901, and by what amount,

, 1	st January, 1901—Ba	lance o	of capita	d this d	lay—	
•	Assets.	•		£	•	
	Property worth .			1,000		
	Due from John Sn	nith		100		
	" Thomas B			250		
	Bank Indiana	20		3,000		
	Cash	•••	•••	50		
•	Cash	•••			4,400	
Liabilitics.						
	A. Robinson			500		
1	A. Robinson	•••	•••	•31717	500	
•					L L	
<del>-</del>	Out Designal from	Talin Ci			100	
January,	2nd—Received from	וכו חמטו	mith	• • •		
` . <b>3</b> 2	Paid into Bank		•••	•••	50	
<b>5</b> 7	2011				30	
~~ <b>,</b> ;;	30th—, salaries of	utenda	ints by	cuedue	10	
Febry.,	1st—Received from T			***	100	
51	10th—Sold property	this	day to	-	<b>#</b> 00	
<b>#1</b>	Coleman	<b>~</b> 1	•••	•••	500	
	28th-Withdrew from			•••	500	
March,	10th—Paid to A. Rob		•••	•••	400	
, n	20th—Purchased star	nps	···		10	
,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,	22nd—Paid to James					
	out interest) b				1,000	
. "	25th—Received cash					
•	on account of y				500	
"	31st—Cash found stol			box	10	
	Value of proper	ty Rs.	G00			
٠.						

#### POLITICAL ECONOMY.

- 1. What is the economic meaning of the term Wealth? Mention the chief sources of Wealth. When does water become Wealth and when can it not be considered such?
- 2. What is meant by the Division of Labour? Point out its advantages, dis-advantages and limits.
- 3. Mention the circumstances that make Wages in one employment higher or lower than in another,

Show that gold and silver fulfil the functions of money well, but that they are not suited for long deferred payments.

5. What are the advantages of using Paper Money? Men-

tion the cautions necessary in issuing such money.

6. If Government were to order all dealers in the bazaar to sell at prescribed prices, what would be the ultimate effect of such an order upon (a) prices, and (b) supplies?

7. What sort of Public Works may advantageously be undertaken by Government, and when may such works be best

left private enterprise?

8. Point out the advantages and disadvantages of Import Duties as a means of raising revenue.

### ENTRANCE AND SCHOOL FINAL-EXAMINATIONS, 1903.

### ENGLISH.—FIRST PAPER.

#### Section A.

- 1. 'Was there no poetry in these Puritans?' How does Kingsley answer this question in his description of a Puritan soldier? What further answer might be found in these Prose Readings?
  - 2. (a) Explain the expressions in thick type:—
    - (i) He ran his finger down the edge, saying to himself. 'This is sharp medicine but it is a sound cure for all diseases.'
      - (ii) Roland who felt how much success depended on his own address and boldness, summoned together his whole presence and if he felt his spirits flag for a moment, cast his eyes upon Catherine.
      - (iii) Under the archway the long column began slowly to defile.
      - (iv) The boat lies beneath the wall too close under the islet to be seen by the warder, but I fear she will hardly escape his notice in putting off again.
        - (v) It was perhaps at a later hour that he wrote on the fly leaf of his Bibile those touching lines in which the higher part of his nature alone is visible.

- (vi) No thought of mercy was in the mind of the man bold in civil war, whose maiden sword had been fleshed at Barnes.
  - (vii) Vanc adjured the House to dispense with the usual fromalities which should precede the adoption of the bill.
  - (viii) It was a time when even the speech of common was in a state of rapid flux.
- (b) Illustrate by short sentences the various other meanings these words from the above extracts, may have :-- sound, flag, defile, putting off, dispense.

#### Section B.

- : 3. What difficulties had to overcome before Queen Mary could escape from Lochleven Castle. Show how, one by one, they were successfully met.
- 4. Give the substance of the comparsion used in the Lay to describe-

  - (i) The death of Astur.(ii) The shrinking of the Tucsans from further conflict with the dauntless three.
    - (iii) The approach of the Tuscan army-
      - (a) when seen far off;
      - (b) when seen nearer;
- and in the Deserted Village to describe—

الأرادا الشارات

- (iv) the position of the Village Preacher amongst his people;
  - (v) the preacher's method of guiding his people;
- (vi) the insecurity of an empire based upon trade;

#### Section C.

- 5. Explain the following lines and shew briefly their connection with the course of the poems:-
  - (i) Out spake the Consul roundly, This bridge it must go down.
  - (ii) To husband out life's taper at the close And keep the flame from wasting by repose,

Ĭ.,

- (iii) Now Roman is to Roman
  More hateful than a foe,
  And the Tribunes beard the high,
  And the Fathers grind the low.
- (iv) Never I ween did swimmer
  In such an evil case,
  Struggle through such a raging flood
  Safe to the landing place.

(v) But times are altered—Trade's unfeeling train Usurp the land and dispossess the swain.

- (vi) Careless their merits or their faults to scan His pity gave ere charity began.
- 6. (a) The student at Trinity College who went up to his professor to take leave of him because he had "finished his education" was wisely rebuked by the professor's reply "Indeed! I am only beginning mine." The superficial person who has obtained a smattering of many things but knows nothing well, may pride himself upon his gifts; but the sage humbly confesses that, "all that he knows is, that he knows nothing," or, like Newton, that he has been only engaged in picking shells by the sea-shore while the great ocean of truth lies all unexplored before him.

(i) Why did the professor rebuke the student?

(ii) State in simple language without the use of figures, the substances of the passage after the word 'Newton.'

- (iii) What is meant by a superficial person—a sage—a smattering of many things—his gifts.
- (b) Explain the expressions in thick type in the following extract:—

Here ensued a very dark period in Goldsmith's life. He was alone in London, without friends, without money, without introduction; his appearance was the reverse of prepossessing; and even despite his medical degree he had practically nothing of any value to offer for sale in the great labour-market of the world. How he managed to live at all is a mystery; it is certain that he must have endured a great deal of want; and one may well sympathise with so gentle and sensitive a creature reduced to such straits without inquiring too curiously into the causes of his misfortunes.

#### ENGLISH.—SECOND PAPER.

D.

1. What parts of a Verb must be known in order to conjugate it? How are verbs classified with regard to the mode of forming their past tenses? Give the past tense and past participle of the following verbs:—

To begin, to flee, to glow, to lose, to mistake, to spread, to understand.

2. What is voice? Transform the verbs in the following sentences from the Active to the Passive Voice.

(a) It is now necessary to consult the doctor.

- (b) The judge suspected that some one had bribed the witness.
- (c) Hew down the bridge, Sir Consul, with all the speed ye may.

Transform the verbs in the following sentences into the Active Voice:—

- (a) Nothing is difficult to a man who is fired by ambition.
- (b) I have been much distressed at your failure.

3. Combine the following detached sentences into a connected narrative:—

The messenger brought me the telegram. It was late. I rose hastily from my chair. I put on my overcoat. I descended the stairs. I opened the front door. The night was bitterly cold. A sharp wind was blowing. I buttoned my coat closely. I began to walk briskly in the direction of the railway station. I arrived there. The last train had gone a minute before, I did not know what to do.

4. How do you distinguish between the Participle and the Verbal Substantive in ing?

Illustrate your answer by the following examples:-

I am going a hunting.

I saw a boy throwing a stone.

Day dawning, we started.

Riding is healthy.

Explain the "a" in the first of these.

E. .

1. Analyse:—

(a)

In arguing too the parson own'd his skill,
For e'en though vanquished he could argue still.
While words of learned length and thundering sound,
Amazed the gazing rustics ranged around.

(b)

Of man's first disobedience, and the fruit
Of that forbidden tree, whose mortal taste
Brought death into the world, and all our wee,
With loss of Eden, till one greater Man
Restore us, and regain the blissful seat
Sing, heavenly Muse.

2. Parse carefully the words italicised in the following

passage:--

"It seems very strange to me that men can be found senseless enough to suppose that the character of an orator can be supported by any one who is unacquainted with philosophy.

F.

1. Write sentences illustrating the same word used as different parts of speech:—

 $(\bar{a})$  Open and above board

(b) Over head and ears

(c) Well and good.

(d) By leaps and bounds.

Introduce the above expressions in sentences of your own in order to make their meaning clear.

2. Convert the following into Indirect Narration:—

- (a) "I do remember, that in my youth, when I was wandering, upon such a night, I stood within the Coliseum's wall, midst the mighty relics of almighty Rome."
- 3. Convert the following sentences into Direct Narration:—
  - (a) The governor of the town then called out with a loud voice and ordered Androces to explain to

them how a savage and hungry lion could thus in a moment have forgotten its innate disposition, and be converted all of a sudden into a harmless animal.

(b) Prospero told Ariel that he was quite satisfied with his work and that his own charms had acted well seeing that all his enemies were now defeated.

#### TRANSLATION.—THIRD PAPER.

G.

ایکبار ایک کسان کا بکرا اینے مالک کے روکنے پر بھی شام کے وقت کسی جنگل میں چلا گیا - جنگل میں اوسکو ایک شیر نے دیکھا اور اوسکا پیچھا کیا اور اوس سے پوچھا کہ تو راتکو جنگل میں کیوں گھومتا ہے۔اسپر بکرے نے کہا کہ میں نے بہت ها تهیونکو جان سے مارتالا هے اور اب میں کسی شیر کی تلاش میں هوں که اوسکو بھی مارةالوں ـ اسپر تو باگہ تر گیا ۔ ایک سیار نے اس گفتگُو کو سنا اور شیر کے پاس جاکر کہا کہ اے شیر تمهارے لئے شرم کی بات ہے کہ تم ایک بکرے سے ترکیّے ـ چلیّے هملوگ اوس بکرے کو مار تألیں - اسپور شیر بولا ارے سیار تو بڑا فریبیا جانور ہے اور اسی وجہ سے بھروسے کے قابل نہیں ھے۔یہ بکرا ایک ایسا بہادر ھے کہ اوسنے بہتیرے هاتهیونکو بارتالا هے اسکے جواب مین سیار نے کہا اگر آپ مجھپر بھروسا نہیں کرتے تو چلئے هملوگ اپنے اپنے دمونکو ایک دوسرے سے باندھیں تاکہ بوقت ضرورت ایک دوسرے کی مدد کریں اور اس بکرے کو مار تائیں جو. کدهمدونوں کے الّمے ایک مزیدار اقمه هے ۔ اسکے بعد وہ دونوں اوس بکرے کے مارنے کے اللے چلے - جیوں ھی اس بکرے نے ان دونوں تاراؤ نے جانوروں کو آتے دیکھا وہ بول اوتہا واہ اے میرے پیارے سیار تہنے خوب کیا کہ اس باگہ کو

میرے پاس لے آئے کیونکہ میں اسی کی کھوج میں یہاں آیا ھوں \*

H

ایک آدمی ایک دانشهند کے پاس گیا اور کہا کے جناب من میں تو اس کہبخت بدن میں بندھے رھنیکو برداشت فہیں کرسکتا کہ اوسکو کھانا اور پانی دیتا رھوں اور اسے آرام دیا کروں اور اسکی صفائی کیا کروں اور اسکے لئے ادھر اودهر دورتا پھرون کیا یہ چیزیں همارے لئے بیکار اور بيفائده نہيں هيں ? اور چونکه موت کوئي بري چيز نہيں هے اور چونکہ هملوگ کسیقدر خدا کے ناتے والے هیں اوو اوسي کے پاس سے آئے ھیں اسلکے ھہلوگوں کو وھیں واپس جاتا چاهئے جہاں سے هملوگ آئے هیں۔ هملوگونکو اون زنجیروں سے جنسے هم بندهے هوئے هيں آزاد هونا چاهئے۔ اس زمين میں سواے تُاکواؤں اور چوروں اور عدالتوں اور ظالمونکے اور کچہ نہیں ہے جو صرف بوجہ اس کہبخت بدن اور اسکی ملکیتوں کے اپنے تصور میں ھہلوگوں پر زور رکھتے ھیں ۔ همکو چاهئے که آنکو دکھا دیں که انکو کسي چیز پر بھي زور فہیں ہے - اسکے جواب میں اس دانشہند نے یہ کہا کہ بھلے آدسي اخدا کي راه ديکهو جب وه تهکو اشاره کرے اور اس فُوكُونِي سے چھتَّكارا دے تب تم رہا ہو كر اوسكے پاس جاؤ-مگر بالفعل یہیں رہنے پر صابر رہو جہاں اسنے تہکو رکھا۔ ھے۔ تبھارے پردیس میں رہنیکے دن تھوڑے تو ہیں اوسکو برداشت کرنا بھی آسان ھے - تھہرے رھو اور بے سمجھے بوجھے

یہاں سے کوچ نکرو \*

### HINDI.—THIRD PAPER.

 $\mathbf{G}$ 

एक समय एक किसान का वकरा अपने सालिक के सना करने पर भी संध्या के समय जड़ल में चला गया। जड़ल में उसकी एक बाध ने देखा और उसका पीछा किया और उससे पृठा कि लू क्यों रात की जड़ल में घूमता है। इस पर बकरे ने कहा कि सैंने बहुत हाथियों की जान से मार डाला है अब मैं किसी बाध के खोण में हूं कि उसकी भी मार डालूं।

इस पर तो बाघ डर गया। एक तियार ने इस वात चीत की खन लिया श्रीर बाघ के पास जा कर कहा कि ऐ वाघ यह लाज की बात है कि तुम एक बकरे से डर गये। चिलये हम लीग उस बकरे की सार डालें। इस पर वाघ बीला। श्रिरे सियार तू बड़ा धूर्त जानवर है इस कारण तू विश्वास के येग्य नहीं है। यह बकरा तो ऐसा शूर है कि इसने बहुतेरे हाथियों की सार डाला है। इस पर सियार बोला यदि श्राप भेरा विश्वास नहीं करते तो चलिये एम लोग श्रपनी श्रपनी दुने एक साथ बांधें श्रीर काम पड़े तो परस्पर सहायता करें। श्रीर उस बकरे की नार डालें श्रीर उसके स्वादु गांस की चलें। तब वे दोनों उस बकरे के मारने के लिये चले। ज्यों ही इस बकरे ने इन दो भयंकर जानवरों की देखा कि वह बोल उठा। बाह प्यारे सियार तुमने खूब किया कि इस बाघ की मेरे पास पहुंचाया क्योंकि मैं इसी के खोज में यहां श्राया हूं॥

H.

एक मनुष्य एक ज्ञानी के पास गया ज्ञार कहा कि

महाग्रय सुक से अब सहा नहीं जाता कि मैं इस दुर्गाग्य देह में बंधा रहूं इस का खान पान भरा करंत इसे ज़ाराम दिया करंत श्रीर इसकी सफाई किया करंत श्रीर इसके लिये इधर उधर दौड़ता फिरूं। क्या ये चीज़ें मेरे लिये बेकाम श्रीर बेमतलब नहीं हैं। श्रीर जब कि मौत तो काई बुरी चीज़ नहीं है श्रीर जब ईश्वर से तो हमारा एक प्रकार का नाता है श्रीर हम उन्हीं के पास से तो श्राये हैं तो क्यों न हम वहीं लीट जायं जहां से हम श्राये हैं। हम इस जंजीर से छूट जावें जिस से कि हम बंधे हैं।

इस दुनिया में सिवा चीरों श्रीर डाकुश्रों के और श्रदालतों श्रीर जालिमों के श्रीर कुछ नहीं है। जी केवल हमारे श्रदीर श्रीर भिलकीयत ही के कारण ये लोग समस्रते हैं कि हम पर उनका ज़ोर घठता है। से हम उनका दिखा देवें किसी चीज़ पर उनका ज़ोर कुछ भी नहीं हैं।

इस पर ज्ञानी जी बोले कि अले आदमी भगवान की राह निहारो जब ईश्वर इशारा करेंगे तब तुम यहां से छूट कर उनके पास जाना। अभी तो यहीं सन्तोव कर बने रही जहां उन्हों ने तुन्हें रक्खा है। तुन्हारे परदेश में रहने के दिन थोड़ें ही तो हैं और उनका निबाहना सहज ही है। से। ठहरों बे समके बूके यहां से कूच न बरो॥

### MATHEMATICS.—FIRST PAPER.

<sup>1. (</sup>a) How many lengths of  $2\frac{2}{3}$  inches each can be cut from a rod  $7\frac{5}{4}$  feet long, and what will be the length of the portion left?

- (b) Reduce  $\frac{2}{3}$  of Rs. 4. 7a. 3p. to the fraction of  $\frac{2}{4}$  of Rs. 7. 14a. 8p.
- 2. (a) Divide 016085 by 3·125; and express 1·4583÷1·5 as a decimal.
  - (b) Simplify

$$\frac{5.5}{63} \times \frac{.081}{4.2} \times \frac{4.9}{.33}$$

- 3. A and B can do a piece of work in 12 days; after working 2 days they are assisted by C, who works at the same rate as A, and the work is finished in 6! days more; in how many days; would B alone do the work?
- 4. The 4 p.m. passenger train from Delhi to Tundla stops first at Ghaziabad, 12% miles distant, at 4-30 p.m.; the whole journey is 127% miles, and 20 per cent. of the time is expended in stoppages; at what time is the train due at Tundla?
- 5. At what rate per cent. simple interest will Rs. S33. 5a. 4p. amount to Rs. 952. 1a. 4p. in 3 years and 2 months?
  - (a) Find the value of  $x^3+y^3+3xy-1$ , when x+y=1.
    - (b) Find the L.C.M. of  $2x^4 + 3x^3 + x^2$ ,  $2x^3 3x^2 2x$ , and  $x^2 x 2$ .
  - 7. Simplify

(i) 
$$\frac{x^4 - 2x^3 + x^2 - 1}{x^4 + x^2 + 1}$$

(ii) 
$$\frac{a+1}{a(a-b)(a-c)} + \frac{b+1}{b(b-a)(b-c)} + \frac{c+1}{c(c-a)(c-b)}$$
.

(i) 
$$\frac{1}{x-1} + \frac{2}{x-2} = \frac{3}{x-3}$$
  
(ii)  $2x - \frac{3}{y} = 3$ ,

$$8x + \frac{15}{y} + 6 = 0.$$

- 9. A has 6 more rupees than B, but if A give to B half his money, and then B give back to A one quarter of his increased sum, they will each have the same sum; find what each had at first.
  - 10. If x-4y: y-3x=3:2, find the value of the ratio,  $x^2-xy+y^2: x^2+y+y^2$ .

### MATHEMATICS.—SECOND PAPER.

N. B.—The usual signs and abbreviations are allowed.

1. (a) Define a rhombus and prove that the diagonals of a rhombus bisect each other at right angles.

(b) The straight lines drawn from the middle points of the sides of a triangle at right angles to them are concurrent.

2. (a) In every triangle, if a side be produced, the exterior angle is equal to the sum of the two interior opposite angles; and the three interior angles are together equal to two right angles.

(b) The interior angles of any polygon are together less by four right angles than twice as many right angles as

the polygon has sides.

3. (a) In a straight line PR find a point K so that the

rectangle PR, RK may be equal to the square on PK.

(b) D is the middle point of the base BC of a triangle ABC, and E the foot of the perpendicular from A on BC. Prove that the difference of the squares on AB and AC is equal to twice the rectangle BC, DE.

4. (a) From a given point draw a tangent to a given

circle.

(b) The angle in a semicircle is a right angle: the angle in any other segment of a circle is acute or obtuse according as the segment is greater or less than a semicircle.

5. Inscribe a regular hexagon in a given circle.

6. The side of a rhombus is 50 ft. and one diagonal is 50 ft.

Find the other diagonal and the area of the rhombus.

7. The sides of a parallelogram are 9 yds, and 13 yds, and one diagonal is 10 yds. Find the other diagonal and

the area of the parallelogram, and the perpendicular distance between each pair of parallel sides.

8. The sides of a triangle are 21 ft. 3 ft. 37 ft. Find in inches the radii of the inscribed and circumscribed circles.

9. A circle, area 314·16 sq. in. is divided into four equal areas by concentric circles. Find their diameters. ( $^{\pi}$ =3·1416).

10. From the following notes draw a plan of the field

and find its area:-

•		•
•	Links.	
	to A	_· ;
	950	1
80	550	
20	150	
From	$\boldsymbol{c}$	
	10 C	
	570	
50	200	
From	B	turn to the left.
	to B	1
	760	1
	400	100
From	A	go Etat.
		-1

#### ARABIC.—FIRST PAPER.

1. Translate the following into English:—

Λ

كان رجل يلثغ بالراء اكن افرط معرفته بلغات العرب التزم على نفسه ان لايتكلم الا بكلهة خلت عن الراء و لاجل ذالك قلها يطلع على لثغه الفاس – فاتفق ان حضر يوما مجلس العاكم و اخبروه عن حاله – فارن العاكم اختباره – وقال اصعد الهنبر وقل للفاس اموالامير ان يعفر البير في الطريق ليروي منه الوارد و الصادر – فلم يلبث و صعد الهنبر – وقال بديهة – حكم الحاكم ان يجعل القليب في السبيل لينتفع منه البادي و الصادي – فتعجب العاكم والعاضرون من كهال قدرته على وضع افظ مكان افظ مناسب له المعاضرون من كهال قدرته على وضع افظ مكان افظ مناسب له المعاضرون من كهال قدرته على وضع افظ مكان افظ مناسب له المعاضرون من كهال قدرته على وضع افظ مكان افظ مناسب له المعاضرون من كهال قدرته على وضع افظ مكان افظ مناسب له المعافرون من كهال قدرته على وضع افظ مكان افظ مناسب له المعافر و المعافر و

ئها سلم فجال بن سلهنه إلى موسى بن عبدالله الاصفهافي ليستناهي ما عليه من الا موال عاقبته - فتلف في مطالبته-فاجتمع بعض الرؤساء بأبي العيناء \_ فقال له ما عندك من خبر نجاح فقال ابو العيناء فوكزه موسى فقضى عليه - فبلغت كلهته موسي ثم لقي أبا العيناء في الطريق فهدده فقال له أبو العيناء اتريد أن تقتلني كها قُتلت نَفسا بالاسس \*

2. (a) Give the root meaning of as well as derive the

(b) Explain the allusion in passage (b) in question 1.
3. Translate the following into English:—

الناس من جهة التبثال اكفاء \* ابسو هسم آدم و الام حيواء و انها الهات الناس اوعية «مستودعات و للاحساب آباء قان يكن لهم في اصلهم شرف \* يفاخرون به قالطين و الماء و أن إليت بقهر من ذوي نسب « فان نسبت المدود و علياء لا فضل الا لاهل العلم انهم \* على الهدى لمن استهدى الالاء وقيمة المهوء ما قد كان يحسنه \* و الجاهلون الاهل العلم أعداء فقهم بعلهم ولا تنبغني له بدلا \* فالناس موتى و أهل العلم احياء

لا تظلمن أذا ما كنت مقتدرا \* فالظلم مرتعه يفضي الي الندم فَاحذر بني من المظلوم دعوته \* كيلا يصيب سهام الليل في الظلم تنام عينكَ و المظلوم منتبه \* يدعوعليك و عين الله لم تنم

اين الذين بنوا لذاك و شيدوا «غرفا به لم يحكها بنيان جمعراالعساكروالجيوش مخافة « من ذل تقدير الاله فهانوا أين الأكاسرة المناع حصونهم " تركوا البلان كانهم ما كانوا

4. Write out the poetical passages (b) and (c) with diacritical marks very carefully.

- 5. Write out the root of the following, and mention the ايراب to which they belong:—
- الدخروا -- مستودعات -- استهدي -- منتبه -- شيدوا مخافة لم يجهم
  - 6. Analyse the following:—

اتريد أن تقتلني كها فتلت نفسا بالأمس

7. Distinguish between معرفة , معرب and مبني and معرفة , and explain them by examples.

#### ARABIC.—SECOND PAPER.

1. Translate into English:-

بكرة نسافر الي بلدنا أن شاء الله تعالى ـ قدم الحاج من مكة المشرفة يوم الخميس - مياه الآبار خير من مياه البحار - جاؤا أباهم عشاء يبكون - سبحان الهلك الحي الذي لاينام ولأيهوت. للصائم فرحتان فرحة عند الافطار و فرحة عند لقاء ربه - يريد الله بكم اليسرولا يريد بكم العسر-انا سألك عبادي عني فاتي. قريب -بارك الله لذا و لكم في القران العظيم- ثمّاته والصيام الي الليل - سلام على ابواهيم كذاك نجزي المحسنين - أنه من عبادنا المخلصين- يا أبت أفعل ماتومر ستجدني أن شاءالله من الصابرين ـ رب هب اي من الصالحين ـ من اطاع الله و رسوله فقد رشد ومن عصى الله ورسوله فقد غوى الاان حزب الله هم المفلحون - عليك باكتساب العلم - أن اللَّه يرزق من يشاع بغير حساب - خير الزاد التقوي - أن أصدق العديث كتاب الله \* حضر اعرابي على ماكّدة الحجاج و كان عليها حلوي فاكل المهة فقال الحجاج من اكل من هذا شيأ ضربت عنقه فامتنع الناس و بقي الا عرابي ينظر الى العلوي سرة و الى العجاج

مرة اخرى ثم قال ايها الامير اوصيك باهلي خيرا ثم اندفع. يا كل فضحك الحجاج و امر له بصلة \*

2. Translate into Arabic with diacritical marks:-

There is no deity but God. Take your books and go to school. Read your lessons and play not with fools. How fair that man is. A boy and a girl came. I have a red dress. The Koran teaches us to obey our parents and to be kind to orphans. Give alms of such things as you have. How many dirhams have you? I have 25 dirhams and Yusuf has nine. Ahmad has four brothers and three sisters. I received a letter from Sulaiman. Speech is silver, silence is gold. An old woman lost the use of her eyes. Live not to eat but eat to live. Lead us to the right path. A wise foe is better than a foolish friend. Proud men have no real friends. We thank Thee for our daily food. The happiness of heaven lasts for ever.

### PERSIAN.—FIRST PAPER.

1. Translate the following passages into English:—

و گاهے براے اعتیاد تردد و دشواری و آگھی از احوال ملک و افعال رعایا - به نخچیر میپردازد و در خرر و خواب که ناگریز زندگی و پابند گیست نهایت اعتدال رعایت میغرمایند - و اصلا بسان فرما روایان متخلب که غرض از پایه گرانهایهٔ سلطنت جز اندوختنی مال و منال که سرمایه وزر و وبال ست امر دیگر ندانند و همگی زندگانی گرامی را به مستلذات جسهانی و مختنهات نفسانی که پیرایه اثم و نکال ست صرف نهایند لحههٔ به غفلت و بطالت بسر نهیرود \*

ودر آنجا دختر نیک روے از شاهزادگان که آئین عیسی داشت بزنی گرفت و پسرے آورد نوش زادش نام نهاد ـ پسر به کیش مادر گروید هرچند نوشیروان درخواست کرد که ازان

کیش باز گردد پسر نیذیرفت اورا در کافع کرد-راه آمد و شد بر او بست پس از چندے روے به هام آوران نهاد و در آنجا رنجور شد پسر گهان برد که روزگار پدر بسر آمده ازان کاخ بیرون شده – گروهے انبوه بریژه ترسایان را گرد آورد و زر بسیاری بخش کرد فرمان فرمایان خوزستان و پارس را گذاشت و زندانیان را آزادی بخشید «

2. Explain clearly the following passages in English:-

زمین را از آسهان نثار است و آسهان را از زمین غبار (1) زرین غبار (1) زر از معدن بکان کندن بدر آید و از دست بخیل (2) بجان کندن «

مقامر را سه شش مي بايد ليكن سه يك بر مي آيد (3) -

3. Thranslate into English:-

جدا از پی خسرو نیک بخت «بساط زر افگنده بالاے تخت نہاده یکے خوان خورشید ناب «برو چار کاسه ز بلور ناب یکے از زر و دیگر از لعل پر «سوم پر ز یاقوت و چارم زدر ولے بود سرپوش بالائے شان «که تا سر نوشابه ماند نهان سکندر چوسرپوششان کردباز «ببیندکه ستگیست درخوان فراز چو بر مائده دستها شد دراز «دهان بر خورش راه بکشاد باز بدشدگفت نوشابه بکشائے دست «بخورایی خورشها که در پیش هست به نوشابه شدگفت کا ساده دل « فوا کیج من تا نهانی خیل درین صحن یاقوت و خوان زرم «ههه سنگ شدسنگ راچون خورم

4. Write out in Persian what you know about Iskandar.

-- Translate the following couplets into English جر سر تربت ما چون گذري همت خواه که زیارتگه رندان جهان خواهد بود بر زمینے که نشان کف پاے تو بود سالها سجه کا حاجب نظران خواهد بود

برواے زاهد خودبین که زچشم من و تو راز ایں پردہ نهانست ونهاں خواهد بود عیب مستان مکن ایخواجه کزیںکہنمرباط کس ندانست که رحلت بجه ساں خواهدبود

6. Translate into English the following quatrains from Umar Khavvam:—

ساقی قداه که کار عدالم نفسے ست
گرشادی ازو یک نفس آن نیز بسے ست
خوش باش ز هدرچه پیشت آید ز جهان
هرگز نه شود چندانکه داخواه کسے ست
قدومی ز گزات در غدرور اُفتادند
قدومی ز یے حدور و قدصور اُفتادند
معلوم شدود چدو پرددها بدردارند
کدز کدوئے تو دور دور اُفتادند

7. Explain in English or Persian the meanings of the following couplet:—

چون حرف آخر است زابجه گه سخن در راستی چو حرف نخستین ابجد است

### PERSIAN.—SECOND PAPER.

1. Translate into English:

فته علیشاه در خدمت عم اعظم سالها بتجارب روزگار آموخته آمد و سختی ها دیدو رازها فههید تا در سنه ۱۲۱۲ هجری بعکم وراثت و وصایت از ملک جم خروج و در مرز رے بر تخت عم عروج فرمون - قریب بچهلسال بقلع و قهع اعدا و تربیت اخبا پرداخت - نخست صادق خان را بکیفر رسانید و قتلهٔ خاقان اکبر را قصاص در آورد و بقایا \_

ملوک زندیه را پاداش داد و بقیه اولاد نادر شاع را قلع وقیع كرد و سركشان را باطاعت در آورد و سلسة عليه قا چاريه راً بمواحدت و مواصلت اتحاد بخشيد و هر كس را بمنصب در خور خوشنود بداشت و حكومت سرحدات ايران را بشاهزان کان بینظیر و وزراے با تدبیر معول و موکل فرمود ملکت ایران را که روے بخرابی نهادی بود صورت آبادی داد و خلائق در عهد دولتش در مهد اس و امان غنوده شدند و از تكاليف شاقه آسوله ماندند بعد از فراغ از امور ملك داري بعيش و شاه كامي وتفرج باغ و بهار و تفنن راغ و شكار مشغوت بود و شبها در سراهاے چوں بہشت پر حور و مفلها \_ چوں خورشید پر نور بعیش و عشرت میگذاشت ملکے از ملوک را شهائلے بدآں خوبے و فضائلے بداں سرغوبی کم روے داد، بود و اینقدر عیش و تجهل و فرزندان متعدد شائسته هیچ سلطانے را حاصل نگشته أسرائے بزرگ و وزرائے دانا داشت و خود در هر صفتے و هر هنرے دانا و از همه اعلی دون نه

#### 2. Translate into Persian:-

В.

God has bestowed upon us certain powers and gifts which no one is at liberty to take from us or to interfere with. All attempts to deprive us of them is theft. Under the same head may be placed all purposes to deprive us of the right to earn property or to use it as we see fit. Honesty has ever been esteemed by people generally as one of the greatest of all virtues. The laws protecting it have been one of the greatest boons that can be conferred on man. Under the same head may be placed our character and influence. They are property, and we have a right to retain them and make a good use of them for our own good and that of others.

C.

Servants have to give such service as was understood at their engagement—this to be determined by custom or the law of the country. Masters and mistresses should have respect both to the best interests and feelings of their dependents. We all know how masters and especially mistresses, are apt to complain of their servants. But the fault may lie in the caprice of those who are in authority. They should realize that the poor and dependent have also rights which are to be rigidly attended to. They should have liberty of thought and of religious worship. The good masters or mistresses commonly get in the end good servants, who, as a rule, are apt to remain with those who are considerate and kind to them.

### SANSKRIT.—FIRST PAPER.

1. अस्ति किसंश्चित् कूपे गङ्गदत्तो नाम मगडूकराजः प्रतिवसित स्म । स कदाचिद्वायादै रुद्वे जितो ऽरघद्वघाटी स-मारुद्धा निष्कात्तः । अष तेन चिन्तितस् । यत् कषं तेषां दायादानां मया प्रत्यपकारः कर्तव्यः । एवं चिन्तयन् बिले प्रविश्वन्तं कृष्णसर्पमपश्यत् । तं दृष्ट्वा भूयो उप्यचिन्तयत् । यदेनं तत्र कूपे नीत्वा सकलदायादाना सुच्छेदं करोमि । उक्तं च

# शत्रुमुन्मूलयेत प्राज्ञस्ती हणं ती स्पोन शत्रुणा। ठयधाकरं छखार्थाय कण्टकेनेव कण्टकम्॥

- (a) Parse the underlined words.
- (b) State the धातु and प्रत्यय in समाहत्व and निष्क्रान्तः
- (c) Change the voices of the following:—
  - (1) एवं चिन्तयन् विले प्रविशन्तं कृष्णसर्पमपश्यत्।
  - (2) कयं नया प्रत्यपकारः कर्त्तव्यः ।
  - (3) शतु मुन्मूलयेत्राज्ञस्तीच्यां तीच्यान शतुया।

(d) What is the significance of अस्ति, नाम and हम in the above extract?

(e) Translate the sloka at the end of the above extract into English or Hindi.

2. Give the substance of the following verses in your own Sanskrit:—

शैले शैले न माणिकां मौक्तिकं न गजे गजे।
साधवी न हि सर्वत्र चन्दनं न वने वने ॥
हेला स्थात कार्यनाशाय वहिनाशाय निर्धनम्।
याचना माननाशाय कुलनाशाय भोजनम्॥
नैतानितश्येजातु तात्यशीयान दूपयेत्।
नित्यं परिचरेच्चव तहै अकृतमुत्तमम्॥
परोच्चे कार्यहन्तारं प्रत्यचे प्रियवादिनम्।
वर्षयेत्तादृशं मित्रं विषक्षमं पयामुखम्॥

- (a) Conjugate the roots of स्यात्, उपजायते and अश्नीयात् in the first preterite.
- (b) Is the form अतिग्रयेन् correct?
- 3. Expound and name the Samasas:—

  उद्यानाम्रवसोपेताम् दीर्घदर्शी । दीर्घायुप: । महाराष्ट्रविवर्षतः । प्रहस्ताभरसः ।
  - (a) State the धानु and मत्य in उपेन् and इर्ज़ी.
  - (b) Justify the w in the word आसेव्छ. 4. Translate into English:—

वापीकूपतडागानां देवालयकुजन्मनाम् । उत्सर्गात्परतः स्वाम्यनिष कर्तुं न शक्यते ॥ यस्यास्ति सर्वत्र गतिः स कस्मा-तस्वदेशरागेण हि याति नाशम् । तातस्य कूपोयमिति जुवाणाः खारं जलं कापुरुषाः पिवन्ति ॥ 5. Reproduce in Sanskrit Prose:

प्राणा यथात्मनोभीष्टा भूतानामि ते तथा।

आत्मीपम्येन भूतेषु द्यां सूर्वन्ति साधवः॥

भृती वृद्धी या न बिसर्ति पुत्रः

स्वयानिजः पितरं मातरं च।

तद्वे पापं भ्रगहत्याविशिष्टं तस्मानान्यः पापकृद्स्ति लोके॥

(a) How is the word औपन्य formed ?

(b) Give the root in বিশ্বনি.

6. Write down the meanings of the following in English or Hindi :--

कद्ये, भ्राहत्या, डिव्डिन, विमान, निष्क, प्रावृत्त, वदान्य, तोर्गा, नागदन्त, विश्रव्य।

### SANSKRIT.—SECOND PAPER.

- Translate any six of the following Extracts into English:-
  - किन्मूषणाद् मूषणनस्ति शीलम् तीर्थम्परङ्किम् स्वमनो विश्हुम् । किमत्र हेयम् परिनन्दनादि सेव्यं सदा किय् गुरुवेदवास्यम्॥
  - (b) विहितस्याननुष्ठानानिनिद्तस्य च सेवनात्। श्रनिग्रहाचेन्द्रियाणां नरः पतन मृच्छति ॥
  - (c) निन्द्त् नीतिनिपुणा यदि वा स्तुवन्त लक्सीः समाविशत् गच्छत् वा यथेष्टम्। अद्येव वा मरणसस्त युगान्तरे वा न्याय्यात् पथः प्रविचलन्ति पदं न घीराः॥

- (d) यह्दासि विशिष्टेभ्यो यचात्रासि दिने दिने। तत्त वित्तनहं मन्ये शेपं कस्यापि रवसि॥
- (c) ननु प्रभाता रजनी। तच्छीघ्रं गयनम्परित्यजामि। स्नानादिशारीरशुद्धिं निवंक्त्यं गुरुदेवपूजनादिभिययागिकि-मनःशुद्धिञ्च सम्पादयामि।
- (f) उपरते भर्तार यत् प्राणाः परित्यनने तन्मीरुर्यम्। उत्तरा विराटदुहिता वालिका विनयवति धीमति विक्रान्ते च पञ्चत्वमिमन्यावुपगतेऽपि प्राणान्तनहै। । अन्या अपि सहस्रशः कन्यका अभरत्तमत्यो जाताः सत्यो जीवितानि न तत्यजुरिति श्र्यते।
- (e) देवि किमत्र क्रियताम्। अलं रुदितेन। जन्मान्तरे न कृतसबदातङ्क्षममे । जन्मान्तरिविहितमेव कर्मफलमुपनयित पुरुषस्येह जन्मनि । अतोऽत्रापि जन्मनि कुर्वधिकाङ्गरुः भक्तिम्। द्विगुणामुपपाद्य देवतासु पूजाम् । ऋषिजनपरि-त्तर्यासु दर्शिताद्रा भव । अव्यर्थफला हि महामुनिसेवा ॥
- 2. Translate into Sanskrit any six of the following sentences:—
  - (a) Can a lamp be of any use to a blind man?
  - (b) Let him come to see me to-morrow morning.
  - (c) Poverty is the best of friends.
- (d) Speak the truth, dear child: it is better to suffer punishment than to deceive.
  - (e) If you wish to achieve much, you must attempt much.
- (f) If you had done what you were told to do, this trouble could not have arisen.
- (g) While still a mere boy, and without a friend in all the world, he journeyed to Benares on foot, there to seek for a Guru who should teach him all he wished to learn.

## HISTORY.

- 1. What is meant by the maintenance of order in a country. What evils follow from disorder?

  How is order maintained in India?
- 2. What are the broad principles on which taxation in India is based.

What are the main heads of-

(1) Revenue.

(2) Expenditure.

3. About what proportion does the area of the Native States bear to that of British India? Why are the good government of the Native States and the prosperity of their subjects object of direct interest to the British Government and its citizens? Illustrate your answer by references to past history.

4. Give a list of the sovereigns of England in chronological order from Henry VII. to Edward VII. with the dates of their

accession.

5. Give, with dates, an outline either of the wars between England and Scotland in the reigns of Edwards I. and Edward II, or of the American War of Independence.

6. Write a short account of any two of the following

events :-

The Rising of Wat Tyler, the defeat of the Great Armada, the expulsion of the Long Parliament, the Capture of Quebec by Wolfe, the battle of Trafalgar, the relief of General Gordon.

7. Write a short life of Nur Jehan with dates.

8. Give an account of the first administration of Lord Cornwallis as Governor-General.

9. Mention all you know about any two of the following:— Asoka, Mahmud of Ghazni, Sivaji, Dupleix.

### GEOGRAPHY.

- 1. (a) Into how many zones of climate is the whole earth's surface divided? Describe them, with a diagram.
  - (b) Define :--

Plateau, Meridians, Latitude, Glacier.

2. Name—

(a) The highest peaks in England, Scotland, Wales and Africa respectively.

(b) The four large rivers of European Russia.

(c) The possessions of the Dutch in the Malay Archipelago.

3. Give accurately the positions of the following, and mention what, and in whose possession, each is:—

Mauritius, Macao, Perak, Vancouver, Cuba, Singapore, Angola

and Penang.

- 4. Give a description of Mexico, stating its climate and vegetable and mineral productions.
- 5. Name in order, going from West to East, the principal islands in the Mediterranean Sea, stating the country to which each belongs.

6. Draw a neat map of North America, showing its boundaries, divisions, rivers, lakes and the position of its largest

towns.

- 7. Find the time at Greenwich when it is eight o'clock in the morning at Buenos Ayres,—the longitude of Buenos Ayres being 58. 61° West.
  - 8. Explain clearly the origin Springs.
- 9. What is dew? Why is there more dew on clear than on cloudy nights? Why are bamboos which lie on a large rock wet with dew in the early morning and not the rock?
- 10. What evidence do volcanoes give of the condition of the interior of the Earth? From what other facts can we draw the same inference?

## GEOMETRICAL DRAWING.

#### Time allowed—2 hours.

Note.—Seale and figures to be neatly inked in, construction lines to be shown, but may be left in pencil.

- 1. Construct a diagonal scale of 12 feet to an inch to read feet and inches. Draw line, and mark off on it from the scale a distance of 63 feet 8 inches.
- 2. Draw two lines inclined to each other at an angle of 22½°. Join them by the segment of a circle of a radius of 1 inch tangential to both lines.
- 3. In a square of 2 inch side construct a hexagon with four of its angles touching the four sides of the square.

4. Draw a triangle two of whose sides are 25 inches and 3 inches respectively, the angle opposite the shorter side being 40°.

5. The adjacent sides of a trapezium are 2.3 inches and 18 inches respectively, and the included angle is 30°, the other sides being 2.75 inches. and 3 inches. Construct the figure, and give the lengths of the diagonals.

Inscribe a circle in a rhombus of 2-inches side and

14 inches shorter diagonal.

# ELEMENTARY CHEMISTRY AND PHYSICS.

- Explain the construction of a barometer and state its uses.
- 2. A mixture of ice and water is placed in a flask in which there is a thermometer, and the flask is heated until both the ice and water have apparently disappeared. Describe what happens and state how the thermometer is affected.
- A gun was fired at a distance of 3 miles from an observer who heard the report 10 seconds after he saw the flash. What was the velocity of the sound?
- A wire earrying a current of electricity passes over and parrallel to a freely suspended magnetic needle. How is the needle affected? If the wire is placed at right angles to the needle what happens?
- Draw a diagram showing the passage of a ray of light through of glass. Mark clearly the angles of incidence and refraction. a piece of glass. Under what conditions is there no refraction and when is the light split up into different colours?
  - 6. What would be the effect of strongly heating in air.

(i) chalk;

(ii) iron filings; and

(iii) magnesium?

Describe a process for obtaining pure water. How could you show that ordinary drinking water is not pure?

If 18 grains of oxygen be mixed with 21 grains of hydrogen and the

mixture exploded, how much water will be produced?

# BOOK-KEEPING.

What is understood by the signs Dr. and Cr.? Show how you will put with the signs Dr. and Cr. the following transactions of Henry Jackson before making Journal entries of tlieni :---

(i) He bought good of A on credit.

(ii) He bought goods of A for ready money.

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Show how you will put with the signs Dr. and Cr. the following transactions of Henry Jackson before making Journal entries of them:—

(i) He bought good of A on credit.

(ii) He bought goods of A for ready money.

- (iii) He sold goods to A on credit.
- (iv) He sold goods to A for ready money.
- (v) He paid wages of attendant.
- 2. State briefly what you know of the following :-
  - (a) Real accounts,
  - (b) Balance Sheet,
  - (c) Capital,
  - (d) Revenue Accounts,
    - (e) Double entry,
  - (f) Ledger,
    - (g) Transfers.
- 3. Distinguish between a Debtor balance and a Creditor balance. Give three examples of each.
- 4. What is a Trial balance? What is its object and how is it effected?
- 5. Describe fully the process by which a merchant can ascertain:—
  - (a) the profit and loss arising from the transactions recorded, (b) the state of each account on the date on which the books

are closed.

- 6. What is the principal characteristic of the Continental System? What are its disadvantages?
- 7. Thomas Brown's Assets and Liabilities on 1st April, 1902, were as follows:—

#### Assets.

Cash	•••		Ŀ£	100
Bank	• • •	• • •	"	1,000
Due from	A. Smith			100
Sugar won	·th	•••		41.0

#### Liabilities.

Due to R. Jackson ... £ 50

Diffe to IV. Mickson	30 D		
His transactions during the mon	th were:-		
April 3rd Paid to T. Thomas	•••	$\mathfrak{L}$	50
" 5th Received of A. John		,,	25
, 10th Bought sugar from Browne		,,	100
" 12th Sold sngar to C. Peters		٠,	200
, 13th Received Cash from C. Peter	ers,	* * *	200
" 14th Paid Browne by cheque		**	100
15th Withdrawn from Bank			7.00

April	16tl	Bought Sugar for Cash	٠.	44.	£	400	,
,, ·	17tl	1 Paid into Bank		···	33	100	
, ,,	30t)	h Paid for petty repairs to shop		•••	"	10	-
22	13	Paid attendant's wages		•••	, 22	. 10	
.,,	"	Received from A. Smith		•••	33 ,	50	
23'	77	Paid into Bank	`	•••	"	50	
		Value of Sugar		.,.	"	900	۸

Rule out a Ledger and post the above into it; prepare a Profit and Loss account and Balance sheet.

8. Rule a form for a Cash Book suitable for recording the transactions in question 7 above. Balance the Cash Book and state the Balance of Cash on hand.

#### POLITICAL ECONOMY.

1. Define the economic meaning of the term Wealth.

Are the following wealth in Political Economy:-

(1) Climate.

(2) A strong and active population.

(3) Mental qualities of the people?

2. Explain briefly the chief causes on which productiveness of labour depends.

. Why is rent paid, what fixes its amount?

Is a corn-grower able to charge a higher price for his corn because he pays a high rent.

. How far is it true to say that wages depend on the ratio of popu-

lation to eapital?

5. Explain how far the value of commodities depends on "supply and demand;" and how far on "cost of production;" being in each case careful to define the sense in which you use these words.

6. What class of persons gains by rising prices? Why are fluctuations

in price generally disadvantageous to the community?

# ENTRANCE AND SCHOOL FINAL-EXAMINATIONS, 1904.

# ENGLISH,—FIRST PAPER.

## SECTION A.

1. Write a short account of ONE of the following — Goldsmith; Macaulay; Washington Irving.

(Answer not to occupy more than one page of your answer book.)

2. Explain the following passages, giving the context in each case:—

- (a) "Thus fares the land, by luxury betray'd,
  In nature's simplest charms at first array'd:
  But verging to decline, its spleudonrs rise,
  Its vistas strike, its palaces surprise."
- (b) "The very same day I went on board we set sail, standing away to the northward upon our own coast, with design to stretch over for the African coast. We passed the Line in about twelve days' time, and were, by our last observation, in seven degrees twenty-two minutes northern latitude when a violent tornado, or huricane, took us quite, out of our knowledge."

Bring out clearly the meaning of the "Line." What coast is here referred to as "our own coast."

(c) "Near yonder thorn, that lifts its head on high,
Where once the sign-post caught the passing eye,
Low lies the house where nut-brown draughts inspir'd,

Where grey-beard mirth and smilling talk retir'd. When village statesmen talked with looks profound, And news much older than their ale went round."

(d) "He talked to them of the injury done him, of the condition they brought to, and that though the governor had given them quarter for their lives as to the present action, yet that if they were sent to England, they would all be hanged in chains, to be sure; but that if they would join in so just an attempt as to recover their ship, he would have the governor's engagement for their pardon."

#### Section B.

- 1. Write a brief outline of Irving's "Roseoc," (This is not to occupy more than 2 pages of your as overdeads.
  - 2. Write short notes on the following:

    Janiculum; Anburn: Charleote; Tehabod Crane.
- 3. Bring out clearly the meanings of the following expressions:—transitory splendoms; equinoctial fervours; diadem of towers; men of provess; white fuces in the quarterings; spectre bridegroom.

## SECTION C.

Explain the following passages, giving the context;

(a) "I wis in all the Senate, There was no heart so bold, But sore it ached and fast it beat, When that ill news was told."

What "ill news" is here meant?

(b) There is in every true woman's heart a spark of heavenly fire, which lies dormant in the broad daylight of prosperity, but which kindles up and beams and blazes in the dark hour of adversity."

(c) "And plainly and more plainly, Now might the

bourghers know,

By port and vest, by horse and crest, Each warlike

What do you understand by "burghers" and

" Lucumo?"

- (d) "These hardy exercises produce a healthful tone of mind and spirit, and a manliness and simplicity of manners, which even the follies and dissipations of the town cannot easily pervert and can never entirely destroy."
- 2. (a) "It is the idle who complain they cannot find time to do that which they fancy they wish. In truth, people can generally make time for what they choose to do; it is not really the time but the will that is wanting; and the advantage of leisure is mainly that we may have the power of choosing our own work, not certainly that it confers any privilege of idleness. Time travels in divers paces with divers persons. I'll tell you who time ambles withal who time trots withal, who time gallops withal, and who he stands still withal."

Give the substance of the above passage in your own words.

(b) In the following extract explain the expressions in large type:—

"He was a man of ORDINARY EXTRACTION, yet enough by his father to give him a good education, which HIS OWN INCLINATION disposed him to receive in the University of Oxford; where he took the degree of Master of Arts; and was versed in books for a man WHO IN-

TENDED NOT TO BE OF ANY PROFESSION, having enough of his own to MAINTAIN him in the plenty he AFFECTED, and having then no APPEARANCE OF AMBITION to be A BETTER MAN THAN HE WAS."

## ENGLISH.—SECOND PAPER.

D.

Read the following passage carefully before answering questions 1, 2, 3.

At Hounslow, where James had formed a camp, the very soldiers with whose help James hoped to put down all resistance, shouted like the rest. James, who was there, asked what it all meant. "Nothing" he was told; "the soldiers are glad that the bishops are acquitted."

"Do you call that nothing?" he answered, "so much the worse for them."

1. Name the parts of speech to which the following words belong, giving your reason in each instance: where, very, down, like, that, what, that, so.

2. What are subjects and objects (if any) of the verbs-

hoped, shouted, asked, do, call.

What verb would you supply for the last sentence? "So

much the worse for them."

3. Give a list of the Prepositions used in the passage, and state what words are affected by them.

## E.

1. Write down (in three columns the past tense, the present participle, and the past participle, of the verbs:—

Cost, drink, forsake, go, loose, seethe, shoe, spin, stride, lay, lie, prefer, swim, fly.

2. Write down three sentences in which the word "following" is used as a Participle, an Adjective, and a Verbal Noun respectively.

3. Show by writing sentences the uses of "do" (1) as an

ordinary verb, (2) as an auxiliary verb.

4. Form adverbs from-true, day, three, whole, possible,

What rules would you give with regard to the position of an adverb in a sentence? Compose sentences to illustrate your answer.

5. Write sentences showing the use of the following conjunction (1) though, (2) unless, (3) till, (4) lest, (5) because,

(6) as.

F.

1. Analyse in tabular form—

He promised solemnly to his men that he would comply with their request, provided that they would accompany him and obey his commands for three days longer, and if during that time land were not discovered, he would then abandon the enterprise and direct his course towards Spain.

2. Re-write the passage given in the last question in the

Direct Speech.

3. Re-write in the Indirect Speech.

Mr. Ghose said, "But how did your child die? Until you are able to give me some information on this point, it will not be possible to defend you properly."

Malek gloomily replied, "I know nothing about it!"

"You must know semething; and unless you tell us the truth on this point we can do nothing. Your case is an extremely difficult one."

"I know nothing."

"But why does your own daughter accuse you of the murder?"

"Her statements are false. My wife and daughter have both been saying what they were taught to say."

# URDU.—THIRD PAPER.

Translate into English:—

(a) اِس ملک کے هر شہر میں جانوروں پر ظلم کو روکنے کے لئے انجہیں کے قائم کونے کے لئے انجہیں کے قائم کونے کی ضرورت یہ هے بوجه لادنے کے جانوروں کے تکلیف پر اس ملک کے باشندے کچھہ بھی توجہ نہیں کرتے۔اِس ملک میں ایسے جانوروں پر ظلم هونا کون نہیں دیکھتا۔کیا تہنے ایسے،

بیلوں کو نہیں دیکھا جنکی دم ھانکنے والوں کے ظلم سے گھاڈل هو کئے هیں? یا جو اپنی پیتھه ارر گردن کے گھاؤ سے بیکام هُو كُنِّے هيں! يہي حالت بهيسوں اور گهوڙوں اور گدهوں كي بهي هي-هم ايسے گهورون ارر گدهون کو اکثر ديکھتے هيں جو آبھو گے اور ادھه مرے هو رهے هيں اور جنکو اپنا چارہ آپ هي تهوندهنا پرتاهے جو اتنے دیلے هورهے هیں که أنكو كهرًا هونا بھي مشكل هے اور جاكے بدن ميں صرف چورا اور دتمي باقي رج كُنِّي في-همارا يهم فرض هي كه أن جانوررن كي ساتهم جو آیسی معنت سے همارا کام کرتے هیں رحمسے پیش آویں \* (//) ملک چین کے کسی بادشاہ نے سنا کہ اُسکی سلطنت کے فور دراز حصہ میں کچھہ اوگرن نے بلوا کیا ہے بادشاہ نے اپنے وزیرونکو اکتّها کرکے کہا کہ چلو دشہنون کو جلدی سے تباہ کُر آویں۔ بادشاہ کے وہاں پہونجتے ہی اُسکے سب دشہن مطلع هوگئے تب سب لوگوں نے یہ سمجھا که بادشاہ اب دشمنوں كو يوري سزا ديگا- ليكن وه تو ايسي آهستگي اور رحمداي سے اُنکے ساتھہ برتاؤ کرنے لگا کہ اس اسر کو دیکھہ کر سب لوك متعجب هوكئے -وزير اعظم نے رنجيده هو كو بادشاه سے عرض کیا که حضور نے تو یہ قرل کیا تھا که دشہنوں کو تباہ کرینگے لیکن اس رعدہ کے برخلات حضور دشہدوں کو معات کر رھے ھیں اور آن سے بری انسانیت کے ساتھہ پیش آرھے ھیں۔ اس سے کیا حضور کا فُول جهوتا نہیں هوتا ؟ بادشاہ نے جواب ديا كه نهيل ميري بات جهوتي نهيل هوئي بلكه سچي هي تَبِههري\_۔ميں نے کہا تھا کہ ميں دشمنوں کو قباع کرونگا ديکھو اب ميرا كوئي دشهن هي نهين ره كيا سب لوك ميرك دوست ہو گئے دیں 🖟

# HINDI.—THIRD PAPER

Translate into English:-

पश्राओं पर ऋरता रोकने के लिये इस देश के हर शहर में सभा स्थापित करना चाहिये। ऐसी सभा स्थापित करने का प्रयोजन यह है कि बोका ढोने वाने पश्रश्नों के क्षेश पर इस देश के लोग कुछ भी ध्यान नहीं देते। इस देश में ऐसे पशुस्रों पर ऋरता नगरों में कौन नहीं देखता। क्या तुमने ऐसे बैलों की नहीं देखा जिनकी पूंछ हांकने वालों की क्र्रता से घायल हो गई हैं। अथवा जो पीठ के और गर्दन के चाव से बेकाम हो गये हैं। यही दशा मैसें श्रीर घोड़ों श्रीर गधों की भी हैं। हम बहुधा ऐसे घोड़ों श्रीर गधों के। देखते हैं जो भूखे और अधनरे हो रहे हैं और जिन की अपना चारा आप ही ढूंढ़ना पड़ता है। जो ऐसे दुर्बल ही रहे हैं कि उनकी खड़ा होना भी कठिन है और जिन के अङ्ग में केवल चमड़ा और हड़ी ही शेष रह गई है। हमारा धर्म है कि उन प्राफ्नों पर जो ऐसे परिश्रम से हमारा काम करते हैं दया के साथ बतीव करें।

चीन देश के किसी बादशाह ने सुना कि राज्य के दूर देश में कुछ लोगों ने बलवा किया है। बादशाह ने अपने मंत्रियों की इक्षट्ठा कर कहा कि चलो शीघ्र शत्रुक्षों का नाश कर आवें। बादशाह के वहां पहुंचते ही सब दुशमन उनकें आधीन हो गये। तब सब लोगों ने यह समका कि बाद-शाह श्रम्ब शत्रुश्रों की श्रच्छी तरह द्राइ देवेंगे। परन्तु वे तो ऐसी धीरता से शीर दया भाव से उनके साथ बर्ताव करने लगे कि इसकी देख कर सब कोई अचरज मानने लगे। प्रधान मंत्री ने खुनसा कर बादशाह से कहा कि श्राप ने तो यह प्रतिज्ञा की थी कि ग्रमुश्रों का नाग करेंगे। पर उस बात की तोड़ कर श्राप सब ग्रमुश्रों की द्यमा कर रहे हैं। श्रीर उनसे बड़ी भलमनसात के साथ वर्ताव करते हैं। इससे क्या श्राप की प्रतिज्ञा मिथ्या नहीं होती है। वादगाह बोले नहीं तो। मेरी बात तो क्टी नहीं भई विल्क मची ही उहरी। मैंने कहा था कि मैं ग्रमुश्रों का नाग करूंगा। देखों श्रव मेरा कोई ग्रमु नहीं रह गया सब लोग इमारे मित्र हो गये हैं॥

## MATHEMATICS.—FIRST PAPER.

1. Simplify-

(a) 
$$\frac{44\pounds}{11+\frac{1}{7+\frac{3}{8\frac{1}{4}}}}$$
; of £1. 13s. 4d.

$$(b)^{\frac{.00281 \times .0625}{1.405}}$$
.

- 2. (a) A bankrupt's liabilities are £ 6,235, 10s. and he pays his creditors 5s. 6d. in the pound. Find by Practice the amount of his assets.
- (b) Find the square-root of 10.001 correct to four places of decimals.
- 3. If 3 per cent. more be gained by selling a horse for £83, 5s. than by selling him for £81, what is the original price of the horse?
- 4. What will Rs. 1,000 amount to, in 3 years, at 5 per cent. per annum compound interest?
- 5. If the 3 per cent. Consols are at 923, what sum of money must be invested in this stock to get an annual income of £630, brokerage being \frac{1}{2} per cent.?
  - 6. (a) Find the L.C.M. of  $2x^3 5x 39$  and  $x^4 21x 18$ .

(b) Extract the square-root of

$$a^{2} + \frac{1}{a^{2}} - 2(a + \frac{1}{a}) + 3.$$

7. Simplify:—

$$\frac{bc(x-a)^{2}}{(a-b)(a-c)} + \frac{ac(x-b)^{2}}{(b-c)(b-a)} + \frac{ab(x-c)^{2}}{(c-a)(c-b)}.$$

8. Solve:-

(i) 
$$\frac{a}{x+b} + \frac{b}{x+a} = \frac{a+b}{x}$$
.  
(ii)  $\frac{x}{2} + \frac{2}{y} = 1\frac{1}{4}$ .  
 $\frac{x}{3} + \frac{3}{y} = 1\frac{2}{3}$ .

9. How many minutes does it want to four o'clock, if three-quarters of an hour ago it was twice as many minutes past two?

10. Show that, if 
$$\frac{a_1}{b_1} = \frac{a_2}{b_2} = \dots = \frac{a_n}{b_n}$$
, then each of these

fractions

$$= \left\{ \frac{\Lambda_1 \alpha_1 m + \Lambda_2 \alpha_2 m + \dots + \Lambda_n \alpha_n^m}{\Lambda_1 b_1 m + \Lambda_2 b_2 m + \dots + \Lambda_n b_n^m} \right\}_m^1$$

where  $\Lambda_1$ ,  $\Lambda_2$ ,..... $\Lambda_n$  and m are any quantities whatever.

# MATHEMATICS.—SECOND PAPER.

1. (a) Any two sides of a triangle are together greater than the third side.

(b) In a triangle any two sides are together greater than twice the median which bisects the remaining side.

2. (a) Triangles on the same base, and between the same parallels, are equal in area.

- (b) Describe an isosceles triangle equal in area to a given triangle and standing on the same base.
- 3. ABC is an obtuse-angled triangle, having the obtuse angle at C, and D is the foot of the perpendicular drawn from A on BC produced. Prove that the square on AB is greater than the squares on BC, CA, by twice the rectangle BC, CD.
- 4. (a) Equal chords in a circle are equidistant from the centre.
- (b) If two equal chords of a circle intersect, shew that the segments of the one are equal respectively to the segments of the other.
- 5. .(a) If a straight line touch a circle, and from the point of contact a chord be drawn, the angles which this chord makes with the tangent shall be equal to the angles in the alternate segments of the circle.
- (b) Two tangents AP, AQ, are drawn to a circle, and B is the middle point of the arc PQ, convex to A. Show that PB bisects the angle APQ.
  - 6. Circumscribe a circle about a given triangle.
- 7. (a) A man travels 10 miles due North, then 20 miles due East, finally 31 miles due South; what is then his distance from the starting point?
- (b) The chord of an arc of a circle is 16 feet, and the chord of half the arc is 10 feet; find the diameter of the circle.
- 8. (a) A three-mile race is to be run on a circular track whose radius is 48 yards; how many times must the winner run round?  $\begin{bmatrix} \pi = 3 \end{bmatrix}$ .
  - (b) A circular lawn, 220 yards in diameter, is surrounded by a path 4 yards wide. Find the area of the path.  $[\pi=31]$
  - 9. The sides of a quadrilateral taken in order are 30, 40, 34 and 24 feet, and the angle contained by the first two is a right angle; find the area of the quadrilateral.

10. Draw a plan of the field and find its area from the following notes, the lengths being expressed in links:—

	·	·	•
, ,	to	A	
,	,	· 650	
50	1	500	" " " " " " " " " " " " " " " " " "
. 0	l.	,350	0.
•		200	50
From	_	C	range to A
	to	C	
		520	
60		300	·
From		В	turn left.
•	to	В	
		390	
		200	80
From		A	go East.

## ARABIC.—FIRST PAPER.

1. Translate the following into English:—
(a) من الجارية المسبلوبة من نعمتها المخدوعة في عقلها المغارقة لحبيب قلبها – اما بعد فقد و رد كتابكم علي فشرح

الصدر و سرالخاطر و كان كقول الشاعر \*\*

ورد الكتاب فلا عدمت انا ملا \* كتبت به حتى تضهيع طيبا فكان موسى قد اعيد لامه \* او ثوب يوسف قد اتى يعقوبا

(b) نعم ان المراتب هذا انها تعطي غالباً بالمحاباة والاستحباب لابالاستحقاق و الاستيجاب فإن الأمير اذا نوه بشخص من اقاربه

او معارفه عند ذي مرتبة و سيادة نفذت كلمته عنده و او أن شخصا متصفا باحسن الاخلاق و متحليا بالعلم و الفضل حاول

بنهسه أن ينال تلك الرتبة لم يلتفت البه - الأان هذا الداء

عام في جهيع الهمالك \*

(c) فقل أن ضهرة الأسدي كان قتالاً للرجال منازلاً للابطال و كان مع ذالك نحيفا قصيرا تنبو المين عنه - و كان قد قتل فاسا من العرب ثم أن نعهان بن الهنذر اللخمي جمع له المراهد

و جعل فيه الجعادل و اعيام فاالك - فكتب اليه بامان و جعل له مأة من الابل ان اتام - فقدم عليه - فلها رام نبت عينه عنه و از درام و استصغر امرم و قال انت ضهرة الاسدي الذي بلغني عنه ما بلغ - قال نعم - فقال النعهان تسمع بالمعيدي خير من ان ترام «

- 2. Give the (اتعلیل) of the words marked, and explain the phrases underlined in the above extracts.
  - 3. Translate the following into English:-

ياد هرمه لآكم تجور و تعتدي أ ولكم باخواني تروح و تغتدي ما آن أن ترثي لطول تشتتي أ و ترق با من قلبه كالجلهد واسأت احبابي بها اشهت بي أ كل العداة بها صنعت من الردي وقد اشتفي قلب العدوبها رأي أ من غربتي و صبابتي و توحدي

4. Rewrite any of the above extracts, supplying them

with diacritical marks (اعراب).

- 5. What are the different kinds of objects (منحول) in Arabic? Define them and give examples of each.
  - 6. Distinguish between the following:—
- (a) معرب and مبني and حرکت (b) معرب and مبني and مبني and منی and معرب and ائمل (d) معتل and اسم ناون (e) معتل and اسماع انمال (f) . (j) انعال and بناءل (g) بنعال انعال (g)

## ARABIC.—SECOND PAPER.

1. Translate into English:

ان تكرمني اكرمك - اذا طلعت الشهس لاح الصبح - اثني الخود باكيا - زيد ابوه كاتب - العاقل من يجتنب كبائر الا ثم و صغائره - اين راح زيد - سارالي السوق فسرنا معه - هذا طفل يلعب بالتراب - الحياء خير كله - البلاء موكل بالهنطق - عفوالهلوك ابقاء المهلك - كادالفقر أن يكون كفوا - سيدالقوم خادمهم - الشاهديري مالا يراد الغائب - ذهبت اليه وقت

الظهيرة - جلس زيد تحت شجرة متكيا - ربنا ما خلقت هذا باطلا-انا أعرف من كتب هذا الكتاب - قلب الغافل في لسانه و لسان العاقل في جنانه \*

و مسن العادل في جماله "

المغني اذا اشتهي و المفقير اذا وجد \* تقليل المنساب العلم قال القهان مخاطبا لابنه - يا بني عليك باكتساب العلم

فان القلب الهيت يحيي بالعلم \*

2. Translate into Arabic with diacritical marks:-

Whence didst thou come? Why did you (dual) come? Did you (dual) come from your house? Where did you (plural) come from? When didst thou go to thy father? Go to your (dual) brother. I will come to-morrow. The husband of Zainab is a wise man. He has three daughters and four brothers. The names of my brothers are Sulaiman and Ismail. Who is this man? Who are these men (dual)? Who are these men (plural)? Who are these women (dual)? Who are these women (plural)? What are you doing? This is Ahmad's pen. That book is Yusuf's. What city do they come from? They come from Egypt. Stand here. Go there. Your father is a virtuous man. I saw your father yesterday. I went to your father to-day.

## PERSIAN. —FIRST PAPER.

1. Translate the following into English and explain the allusions referred to:—

A.

خوهر اگر در خلاب أفته همان نقیس است و غبار اگر بر فلک رود همان خسیس-استعداد بے تربیب دریغست و تربیت قامستعد ضائع - خاکستر نسبات عالی دارد که آتش جوهر علوی است و لیکن چون بنفس خود هفرنے ندارد آبا خاک برابرست -و قیمت شکر نه از نی است که آن خود خاصیت وی است \*

حوكنمان راطبيعت يے هنربود \* پَيَهبر زادگي قدرش نيفزود هنر بنها ـ اگر داري نه گوهر \* كل از خارست و ابراهيم از آزر

B.

درین وقت لامعاله چندان خلق در مصر بود که اُنچه در نیشا پور بودند خمس ایشان بجهد بود و هر که مقادیر داند معلوم او باشد که کسیرا چند مال باید تا غله او این مقدار باشد و چه ایمن رعیتے و عادل سلطانی بود که در ایام ایشان چنین حالها باشد و چندین مالها که نه سلطان بر کسے ظلم وجور کند و نه رعیت چیزے پنهان و پوشیده دارد \*

2. Translate the following into English:-

A.

زبس گوهرن گوش گردن کشان شده چشم بیننده گوهر فشان زتابنده یاقوت رخشنده اعل شخرامنده را آتشین گشت نعل مگر کان و دریا بهم تاختند شهه جوهر اینجا بر انداختند زن زیرک از سیرت شان او شدر آن داوری شد هراسان او که این کاردان مرد آهسته رائی شرا رسم خدمت نیارد بجائد درو کرد باید یزو هندگی شکه از ما ندارد شکو هندگی زسر تا قدم دید در شهر یار شزر پخته را بر محک زد عیار

افشاے راز خلوتیان خواست کرد شجع

شکر هٰدا که سر دلش بر زبان گرفت٬

میخواست کل که دم زند از رنگ و بوے تو

از غيرتش صبا نفس اندر دهان گرفت

چون لاله کیم نهاده کلام طرب ز کیر

هر قداغ قال كه باله چون ارغوان كرفت

آن روز عشق ساغر مي ذرمنم بسوذت

کاتش ز عکس عارض ساقي دران گرفت

3. Explain clearly in Persian:-

این کهند ریساط را که عسالم نام است آرامسکه ایسلق صبه و شسام است بُزْمِیست که و اماندهٔ صدرجهشید است قصریت که تکیه کاه صد بهرام است

روزے که جزاے هر صفت خواهد بود

قسهر تسو بقدر معرفت خواهد بود

در حسن صفت گوش که در روز جزا

حشر تو بصورت صفت خواهد بود

4. Analyse the last couplet in question 3 according to

Persian grammar.

5. Mention half a dozen Persian Infinitives which can be used both transitively and intransitively, giving examples of each with their meanings.

6. Write short notes on the following:-

روح القدس -- سدرة المنتهي -- آل عبا -- احرام -- صوفي مسجد الحرام -- جام جم -- رند \*

## PERSIAN.—SECOND PAPER.

1. Translate the following passages into English:

(۵) قلب انسان که هنوز شامل بگناهے نشده است چون آئینه روشن است \_ و صفت آئینه این است که تا هنگاسے که آن را از زنگار و غبار و گرد باک دارند شفات بوده روشنائی میدهد ولے چون غبارے بر آن نشست روشنی آن روبه کاهش میدهد و اگر در صفائی آن نکوشند که کم غبار تمام آئینه را گرفته روشنی اش را بتاریکی بدل کرده ازدرجة اعتبار خواهد انداخت و همچنان دل انسان - اگر انسان از اول خود داری نا نموده داس خود را بگناهے بیالاید گرد گناه بر آئینه داش نشته رفته رفته مرآت خاطرش از زنگار معصیت تاریک شده قوت بینائی ازو میرود چنان که خوب از به و ثواب از گناه غرق کردن نتواند و ازین رو در در یا حصیت مستغرق شده درجه پستی و نژندی که دوزخ مقصود از آنست حاصل نموده همواره گرفتار رنیج و معنت مقصود از آنست حاصل نموده همواره گرفتار رنیج و معنت مقصود از آنست حاصل نموده همواره گرفتار رنیج و معنت

و زحمت خواهد بود- لهذا مارا باید که هردم آئینه قلب را از زنگار گفاه پاک ودل را صاف و سپید بداریم هدر (۵) معادن نفیسه در ایران فراوان نیست بلے آهن وسرب در بسیارے از اطراف این ملک یافت میشود - اهالی ایران مدعی آنند که معادن طلا نقره هر دو درین مملکت یافت میشود لاکن هرگز فایده بر این معادن مترتب نشده است مسموع اُفتاد که معدن طلائی در فارس - و معدن نقره در افر بایجان پیدا شد اما بقدرے یافت نمے شد که معادل باخرج بیرون آوردن آن باشد - و لهذا همیشه طلا و نقره باخرج بیرون آوردن آن باشد - و لهذا همیشه طلا و نقره

ایران از بلاه دیگر بوده است \*

## 2. Translate into Persian:—

- (a) When Abraham sat at his tent door, according to his enstom, waiting to entertain strangers, he espied an old man, stooping and leaning on his staff, weary with age and travel, comming towards him. He received him kindly washed his feet, provided supper and caused him to sit down; but observing that the old man ate and prayed not nor begged for a blessing on his meal, he asked why he did not worship the God of heaven. The old man told him that he worshipped the fire only, and acknowledge no other god. At which answer Abraham grew so zealously angry that he thrust the old man out of his tent and exposed him to all the dangers of the night, unprotected as he was. When the old man was gone, God called to Abraham and asked him where the stranger was. He replied: "I thrust him away because he did not worship Thee." God answered him, "I have suffered him these hundred years although he dishonoured me; and couldst thon not endure him one night, when he gave thee no trouble!" Upon this, saith the story, Abraham fetched him back again and gave him hopsitable entertainment and wise instruction. "Go thon and do likewise, and thy charity will be rewarded by the God of Abraham.
- (b) There are numbers of persons in India who obtain their whole living by begging and who bring up their children to the same occupation. They are wretched and vicious. They can nothing themselves and live by diminishing the earnings of others. How much better would it be for all such persons if, by being

left either to labour or to starve, they, were taught the necessity of industry, and thus rendered useful, honest, respectable, and virtuous members of-soceity?

## SANSKRIT.—FIRST PAPER.

- 1. प्रश्न गच्छता कालेन सकलमि कबलितं मण्डूककुलम्। केवलमेका गङ्गदत्तिस्तिष्ठति । ततः प्रियदर्शनेन भिणितम्। भी गङ्गदत्त बुभुत्तितोऽह्मम् । निःशिषिताः भवे मण्डूकाः। तदीयतां मे किञ्चिद्धोजनम् । यतोऽहं त्वयात्रानीतः। स प्राह । भी सित्र न स्वयात्र विषये कापि चिन्ता कार्या। तद्यदि मां प्रेषियणसि । ततोऽन्यकूपस्थानपि मण्डूकान् विश्वास्थात्रानयानि॥
  - (a) State the धात and पत्यय in विश्वास्य and भोजनम्.
  - (b) Parse the underlined words.
  - / (c) Decline गच्छत् and अस्मत् in the accusative case.
  - 2. Translate into English:—

हाबुपायाविह प्रोक्ती वियुक्ती शमुद्रश्रेने।
हस्त्योश्वालनादेका द्वितीयः पादवंगजः॥
चलत्येकेन पादेन तिष्ठत्येकेन बुद्धिमान्।
नासमीत्य परंश्यानं पूर्वमायतनं त्यजेत॥

- (a) Conjugate the roots of निष्ठति, अस्ति and रयजेत् in the preterite (लिट्)
- (b) State the rules of Sandhi in the underlined words.
- (c) Decline बुद्धिमंत् and विमुक्ति in the objective case (द्वितीया).
- 3. Translate into English or Hindi:—

  सनसा चिन्ततं कार्यं वचसा न प्रकाशयेत्।

  अन्यलिकार्यस्य यतः सिद्धिनं जायते।

# सृद्घट इव मुख्भेद्यो दुःसन्धानम् दुर्जनी भवति । स्रुजनस्तु कनकघट एव दुर्भेद्! स्वक्सिनिघम् ॥

- 4. Write out in Sanskrit prose order :-
- (a) तेन सत्याभिसत्येन त्रिवर्गननुतिष्ठता । पालिता सा पुरी श्रेष्टा यथेन्द्रेगामरावती ॥
- (b) सिद्धं वा यदि वाऽसिद्धं चित्तोत्साहो निवेदयेत्॥ प्रथमं सर्वजनतूनां तत्प्राज्ञो वित्ति नेतरः॥

(a) Parse the underlined words.

(b) Write down the meanings of লিম্ম and সমিদ্দমা, '

- (c) Re-write extracts (a), changing the passive into the active construction.
- 5. Translate into English:-

# श्रञ्जनस्य त्रयं द्रष्ट्वा वरनीकस्य च सञ्चयम् । श्रवन्थ्यं दिवशं कुर्याद्दानाध्ययनकर्नस् ॥

## SANSKRIT.—SECOND PAPER.

- I. Translate into Sanskrit:-
- (a) Why didst thou shut thy ears when Govinda was telling a story?

(b) Indra was the mightiest of all the Gods; therefore

they crowned him King.

- (c) The king of the Kalingas besieged Pataliputra.
- (d) Sita (said): "I how to these Rishis."

  Rama: "These are the greatest of sages, named Sanaka; Sanandana and Sanatkunara,"

  Sita: "To my mind you are the greatest and best person."
- (e) A lazy man sleeps for a long time.
- II. Compose 3 short sentences using—in (1) the Third Person—Singular—Present Tense (লম্) form of the root সু; in (2) the Instrumental—Plural form of the word লমা. and

in (3) the Third Person—Singular—First Preterite जह form of the root इम्

III. Translate into English any five of the following passages:—

- (a) सत्यम्ब्र्यात्प्रियम्ब्र्यान ब्र्यात्सत्यमियम्। प्रियञ्च नानृतम्ब्र्यादेष धर्मः सनातनः॥
- (b) पापानिवारयति योजयते हिताय गुद्धानि गूहति गुणान् प्रकटीकरोति । श्रापद्गतञ्च न जहाति ददाति काले सन्मित्रलच्चणमिद्मप्रवदन्ति सन्तः ॥
- (०) हरिश्चन्द्रो नाम राजा श्रास । तस्य शतञ्जाघा अभूवः। तास पुत्रक लेभे। तस्य गहे पर्वतनारदावूषतुः। नारदस्याज्ञया यज्ञेन वस्णान्तुष्टाव।
  - (d) स्रोत्रं स्रुतेनेव न कुण्डलेन दानेन पाणिनेच कङ्कणेन। विभाति कायः किल मानुषाणा-म्परोपकारेने तु चन्दनेन॥
- (e) चतस्त्रो विद्याञ्चतुष्पष्टिङ्कलाञ्च चन्द्रापीडोऽशिक्षत । सर्वोष्ठ च निपुणो भूत्वा पितुः प्रिया बभूव । युवा-वस्थायानदेशाटनाय निर्जगाम । सक्तलारम्बस्बश्चाम ।
- (f) त्रिःसप्तकृत्वः परशुरानः एथिवीनचित्रयामकरोत्। स क्रूरस्वभाव आसीत्। बाल्यावस्थायामेव स्वकीयाम्मात-रञ्जघान। जनकपुरे स रानचन्द्रेज निजितः शान्तो बभूव।
- (g) प्रस्मिन्मण्डपे समागतान् ब्राह्मणानहमजगणम्। पञ्च शतानि तेषां बर्तन्ते। एतेम्याऽधुना दिव्यान्दातुमार-मस्त्र। तान् सन्तृष्टान् कृष् ॥

# (h) अधुनैन सेाऽत्रागत्य 'अयम्पुरुषो दुर्विनीतः, अयं स्विनीतः' इति बहु जालापीत् ॥

## HISTORY.

- 1. Give a short account of Asoka.
- 2. What important historical events are connected with the following places:—Jalalabad, Assai, Wandewash, Plassey, Arcot, Panipat, Lucknow, Delhi.

Give the dates of the events and indicate the position of each place.

- 3. Give brief account of Lord North brook's administration.
- 4. What is a Municipal Board and what are its duties?
- 5. Mention the most important manufactures carried on in India.
  - 6. In whose reigns did the following events take place?
- (1) The discovery of America, (2) The Defeat of the Armada, (3) The battles of Creey, Agineourt Blenhiem, Waterloo, (4) The Crimean War, (5) The American War of Independence, (6) The abolition of the Slave Trade. Give dates.
  - 7. Explain the following terms.—Chartist, Jacobite, Bloody Assizes, Ship Money, Doomsday Book, Catholic Emancipation Ballot Act.
- 8. For what are the following noted:—William Caxton, John Wyclif, Simon de Montfort, Raleigh, Haveleck. John Bunyan, Dupleix.

#### GEOGRAPHY.

- 1. Draw a map of Turkey in Asia, marking its boundaries, divisions, chief rivers, mountain ranges, and principal cities.
- 2. The 30th parallel of North latitude passes nearly through Shiraz. What other countries, places and natural features does it traverse in both hemispheres?

- 3. State what are the following and describe accurately the position of each:—Port Arthur, Sophia, Mekong, Belgrade, Seoul, Okhotsk, Sunda. Brisbane, Samoa, Panama, Cotopaxi, Yukon, Pennsylvania.
- 4. How would you explain to one who was ignorant of the subject, (a) the cause of day and night (b) the rotation of the seasons, and (c) why Siberia is colder than India?
- 5. Describe how the Sundarban at the mouth of the Ganges has been formed.
  - 6. Define the following, giving an example of each:—
    Continent, longitude, basin, estuary, cereals, ruminants, Sclavonic nations.
  - 7. Describe the construction and uses of a barometer.
- 8. "In Alaska, the Russians who have arrived across Asia find their Sunday to be reckoned Saturday by the Americans who have arrived from the United States." Why is this so?

## GEOMETRICAL DRAWING.

## Time allowed—2 hours.

Note.—Scale and figures to be neatly inked in, construction lines to be left in pencil.

- 1. The distance between two places on a map is 13° 67 inches while the actual distance apart of the places is 23 miles. Construct a scale for the map showing miles and furlongs.
- 2. Find by construction a fourth proportional to three given lines 2 inches  $1\frac{3}{4}$  inches, and  $1\frac{1}{2}$  inches long.
- 3. AB=3 inches, BC= $2\frac{1}{2}$  inches, CA= $1\frac{1}{2}$  inches are the sides of a triangle. Draw an inscribed rhombus making one of its corners touch AB in a point  $1\frac{1}{4}$  inches from B.
- 4. Draw a straight line, and taking a point 1½ inches distant from it as centre, describe a circle of 1, inch radius. Draw a straight line touching this circle, and making an angle of 30° with the given straight line,

- 5. Construct a rhombus having its sides 2 inches long and one of its angles 75°. Within it inscribe two equal circles touching each other, and each touching two sides of the rhombus.
- 6. Make angles 70°, I15°, 75°, 135°, 150°, without using the protractor.

## ELEMENTARY PHYSICS AND CHEMISTRY.

- 1. What do you mean by the mass of a body? How is the mass of a body measured? What is the difference in meaning between the mass of a book and the weight of a book?
- 2. Make drawings of a spring balance and an ordinary balance and explain the principle on which each works.
- 3. What is meant by density? Explain clearly how you would determine the density of (n) kerosine oil (b) a small stone.
- 4. What happens when (a) sugar is placed in water, (b) zinc is placed in dilute sulphuric acid, and (c) marble is placed in hydrochloric acid?
- 5. Describe what takes place when (a) copper is dissolved in nitric acid and (b) the solution is evaporated. Will the residue weigh more are less than the original copper? Give reasons for your answer.
- 6. Describe the form and colour of crystals of sulphur, salt, sugar and alum. How can these crystals be produced? What would happen if crystals of (a) sulphur, (b) soda, and (c) salt were heated?
- 7. Describe the process by which salt can be extracted from sea water.
- 8. Some water is heated in a test-tube. At what temperature will it boil when the mercury in the barometer stands at 30 inches? If the barometer falls will it make any difference to the boiling point of the water? If some salt be put in the water, will that make any difference?

## BOOK-KEEPING.

- 1. Illustrate by examples what is meant by (i) Single entry, (ii) double entry, (iii) Capital, (iv) Depreciation, and state wherein lies the advantage of double enrty.
- 2. How would you record the following each transactions of a merchant? What was his balance at hand at the close of the month?—

lst A	oril.	1903.	Cash in hand nil.	,
	,,	٠ ,,	,, in the Allahabad Bank £ 50	0
2nd	"	"	Received from A . £ 2	0
	33	,,,	- Paid into Bank ,, 1	0 `
10th		,,	To B his bill by a cheque on	
	,,	,,	the Allahabad Bank ',, 10	0
$12  ext{th}$	33.	,,	T) 1, 1 e 1	5
•	33	31	Received from G ,, 28	30
30th		•••	" Sale proceeds " 5	60ì

- 3. If I purchase sugar worth Rs. 50 from A and sell tear worth Rs. 40 to B, what entries are necessary in the Ledger?
- What is a journal form? Rule out a from of journal according to the Continental system.
  - Describe fully the nature and purchase of
    - (i) transactions recorded in the Profit and Loss account of a merchant. How will you deal with a debit balance in this account?
    - (ii) the balance account in the Ledger.
  - State the distinction between a personal and real accounts.
- Journalize the following transactions of William Jones and then post them into the Ledger.

Balance and close the Ledger:—	-·····	
Assets.	Liabilities.	Carlotte
${m x}^{\prime}$ , which is a second of ${m x}^{\prime}$ . The second of ${m x}^{\prime}$	<u> </u>	1
Cash 100	Due to Roberts 50	1 10 10 10 10 10
Bank 1,000		
Due from E. 100		
Smith.		
10th June 1903. Bought sug	gar of J. Edwards &	${\mathfrak L}$
Son		1000
11th ,, ,, Paid to Rol	berts	50
15th ,, ,, Bought par	per of W. Blake	550

			•	£
17th J	(une '	1903.	Sold sugar to Benjamin Smith	500
			Bought port from Smith & Co.,	100
18th	"	"	Received Cast from Benjamin	
$20  ext{th}$	"	"	Smith	500
0141		,	Paid to J. Edwards & Son	400
$21  ext{th}$	"	"		100
,,,	,,	29	" J. Smith & Co.	
22nd	,,	,,	Sold paper for Cash	1000
$25  ext{th}$	"	,,	Paid into Bank	500
28th			W Dieles her chooses	500
	"	"	317 of Community	100
30 th	13	"		10
"	,,	"	" Postage Stamps	
,,	"	,,	" · Repairing business premises	10
			n hand.	
S	ugar	£300		
	Paper	,, 300		
I	Port	,, 200		

8. What do you understand by the continental method and the English method? Shew clearly the exact difference between the two systems as regards posting the entries.

## POLITICAL ECONOMY.

1. Distinguish capital from wealth. Explain accurately the way in which capital promotes the productiveness of industry.

2. State the Law of Diminishing Returns.

3. Explain the economic theory of rent and indicate some of the chief causes which modify the effects of competition on rent.

4. Analyse earefully the circumstances that tend to make the

average rate of interest in one country higher than in another.

5. Explain the phrases "immobility of labour" and "standard of comfort," and show how the facts they point to effect the wages question.

6. What is money, and what its chief functions? Mention with reasons the qualities a thing must possess in order to discharge those functions and name objects fitted to serve as money.

7. What are the conditions which precede and accompany international trade? Describe the economic advantages of foreign trade.

8. State as concisely as you can the arguments in fevour of Free Trade, and examine some of the common pleas for Protection.

# ENTRANCE AND SCHOOL FINAL EXAMINATIONS, 1905.

# ENGLISH.—FIEST PAPER.

#### Α.

- 1. Explain the following passages, giving the substance of the context in each case:—
  - (a) "The butterfly is glancing bright
    Across the sunbeam's track;
    I care not now to chase its flight—
    Oh, call my brother back!"
  - (b) Ass waited a moment, as gentlemen can,
    And then, "Not presuming to teach," he began,
    "Permit me, to say, since my thoughts you invite,
    I always saw things in a different light."
- (c) When the settled season began to come in, the thought of my design returned with the fair weather, and I was preparing daily for the voyage: the first thing I did was to lay by a certain quantity of provisions, being the stores for our voyage; and intended, in a week or fortnight's time, to open the dock, and launch out our boat. I was busy one morning upon something of this kind, when I called to Friday, and bid him go to the sea shore and see if he could find a turtle, a thing which we generally got once a week, for the sake of the eggs as well as the flesh. Friday had not been long gone, when he came running back, and flew over my outer wall, or fence, like one that felt not the ground; and before I had time to speak to him, he cried out to me, "O Master! O Master! O Sorrow! O bad!"
- (d) The effect of this devotion of elegant minds to rural occupations has been wonderful on the face of the country. A great part of the island is rather level, and would be monotonous were it not for the charms of culture; but it is studded and gemmed, as it were, with castles and palaces, and embroidered with parks and gardens.
- 2. Write a short account, not exceeding two pages of your answer book, of the wreck of Crusoe's vessel and of his landing in the island.

#### B.

1. Write short notes on the following:—
Trainband captain; Cophetua; Brave Kempenfelt; Norman's Woe.

- 2. Give, in your own words, the meaning of each of the following:—last night the moon had a golden ring; highwater mark; a shoulder-of-mutton sail; a tart temper never mellows; a world of staid counsel; make a Star-Chamber matter of it.
- 3. Give an account of Rip van Winkle's return to his village.

C.

1. Reproduce from memory (a) two stanzas of the poem entitled 'the Wreck of the Hesperus' beginning with the line 'And fast through the midnight dark and drear'; (b) the last Stanza of 'After Blenheim' beginning with the words 'And everybody praised the Duke.'

2. (a) Give in your own words the substance of the

following passage:---

How much, thought I, has each of these volumes, now thrust aside with such indifference, cost some aching head! how many weary days,! how many sleepless nights! How have their authors buried themselves in the solitude of cells and cloisters; shut themselves up from the face of man, and the still more blessed face of nature; and devoted themselves to painful research and intense reflection! And all for what? to occupy an inch of dusty shelf—to have the title of their words read now and then in a future age, by some drowsy churchman or casual straggler like myself; and in another age to be lost, even to remembrance. Such is the amount of this boasted immortality.

(b) In the following stanzas explain the italicised portions:—

"And now when busy crowds retire To take their evening rest, The Hermit trimmed his little fire, And cheered his pensive guest.

And spread his vegetabte store, And gaily pressed, and smiled; And skilled in legendary lore The lingerng hours beguiled."

## GRAMMAR.—SECOND PAPER.

D.

- 1. Illustrate by short sentences of your own construction the differences in meaning or use between all and whole; any and some; farther and further; too and very; many and many a; either and other.
- 2. Show what meanings the following nouns have in the singular number, and in the plural:—

abuse, effect, custom, light, manner, letter.

- Form:—1. Adjectives (not participles) from benefit, permit, number, study.
  - 2. Verbs from fraud, gold, trust, just.
  - 3. Abstract nouns from repeat, enemy, slay, advise.
- 4. Give the past participles of the following verbs, pointing out the difference in use or meaning of the double forms:—

  bind, behold, hang, seethe, shear, strike, cleave (split).

E.

5. Parse the italicised words in the following sentences:—

They received every man a penny; I meet him every other day; Please find me an appointment: I told you so; The boy shot the bird dead; He attacked me sword in hand; Schoolboys are taught grammar; No noise, if you please; A horse! a horse! My kingdom for a horse!

6. How can we tell whether a given sentence is Simple, Complex, or Compound in form? Combine the following two sentences into (1) a Complex sentence, (2) a Compound sentence:—

He is but a child. He is remarkably intelligent.

7. Analyse in tabular form :—

And as Nature, who gives supplies of food to every creature, dictates even naturally how to make use of such food, so I, that had never milked a cow, much less a goat, or seen butter or cheese made, except only when I was a boy, after a great many essays and miscarriages, made me both butter and cheese at last, and also salt, and never wanted for them afterwards.

#### F.

8. Express the following in the indirect form of speech, taking care to use appropriate reporting verbs:—

1. He said to me,—"Be sure I will not deceive you."

2. The teacher said,—"See, this is where your mistake lies."

3. "Off with you," said the man,—"this is no place for you!"

4. "Hurrah! hurrah!" cried the boy,-"I stand first on

the list."

- 5. "Surely," thought Rip, "I have not slept here all night."
- 9. Expand each of the following simple sentences, into a Complex one:—

Our wishes were all granted.

2. I acknowledge your great kindness to me.

3. The Earl swore allegiance to the King.

4. The only question now is the degree of their guilt.

5. The origin of the story was fully related.

10. Reconstruct the following sentences according to the bracketed instructions:-

1. He is so headstrong that he will not take advice.—(Use too for so.)

2. I last saw him a month ago.—(Change a month ago into

for a month.)

3. As soon as he saw me, he ran away.—(Use no sooner for as soon.)

4. It is better to live in the country than to live in the town.—(Use preferable in place of better.)

#### THIRD PAPER.

1. Translate into English:—

G.

بہتونکی رائے ہے کہ لار پیار سے ارکے بگر جاتے ہیں ایکی سونی کر دیکھا جاوے تو ارکوں میں اچھی اچھی باتونکا پودا پیار ہی سے جہتا ہے۔ولایت کے ایک عالم نے اکھا ہے کہ میری ما کی بار بار چومنے نے مجھے علم تصویر کشی میں هنرمند بنا دیا۔جتنا اوستاد مدرسه میں ترانے

اور سزا سے سالہائنے دراز میں سکھلا سکتا ہے اوتدا لڑکا اللہ گھر میں اپنی ما کے طبعی محبت سے ایک دن میں سیکھہ الميتا هيـ -ما كي طبعي محبت كا اندازه اس سے برهكر أور كيا ملسكتا هے كه لركا كتفاهي روتا هو يا اداس هوتا هو ما كے گود میں جاتے ھي چپ ھو جاتا ھے مصيبت دردزہ اور فكر پرورش اولاد اور اونکوخوش و خرم دیکهکر داکو چین هونا اور اونکو بیهار اور آداس دیکهکر بیکل هونا یه سب داتين ما هي مين پائي جاتي هين-ارکا جب کپوت اور نکها فکل جاوے تو باب آوسکا ساتہ نہیں دیتا۔ گھر سے نکال باهر کو دیتا ہے۔ایکن ما اپنے شوهر کو چھوڑ کر اُپنے نکہنے بيتے كا ساقهم ديتي هے-دو چار نہيں بلكه هزاروں أيسيما فیکھنے میں آئیں ھیں جنھوںنے ارکے کی بھپی ھی میں باپ کے نرھنے پر مصیبتیں اوتھا اوتھا کر اپنے لڑکے کو پالا ھے اور اوسے پڑھا لکھاکر سب طور سے لائق کرڈیا ما کا ایک ادار کا دالاسا بیتی کے لئے جتنا فائدہ بخش اور اوس کے دالیر موثر ہوتا ہے اوتنا باپ کے سو بارکي نصیحت اور سزا دھي بهي نهين هوڌي \*

H

شہر دھلی کے ایک اندھے بھیک منگے کے کتے کے بیان میں یہ لکھا گیاکہ نہ صرف یہی تھا کہ یہ جانور اپنے مالک کو خطروں سے بچا کر لئے پھرتا تھا بلکہ اوسنے اون گلیوں اور اون مکانات کو بھی پہچان لیا تھا جہاں اوسکے مالک کو دو تین بار ھر ھفتہ میں بھیک ملاکرتی تھی۔جب کبھی اون گلیوں میں سے کسی میں پہونچتا جنسے وہ خوب آگاہ تھا وہ اونکو ھرگز نہیں چھورتا تاآنکہ ھر اس مکان پر حاضر نہو لیتا جہاں اوسکا مالک اکثر اپنی استدعا میں کامیاب نہوا کرتا تھا۔جب وہ سائل بھیک مانگنے الگتا تو وہ کتا

سستانے کو پر رهنا۔ مگر جیوں هي اوسکو بھیک ملجاتي یا انکار کیا جاتا تیوں هي کنا خود بخود او تھہ کھرا هوتا اور بلا حکم یا اشار \* کے اوسکے آگے کے گھر کی طرف برهنا ۔ جب کوئي شخص کھرکي سے ایک پیسہ پھینکدینا تو اس کتے کی هوشیاری اور توجه دیکھی جاتی تھی که و \* اُس پیسه کی کھوج میں ادهر اودهر دورتا پھرتا اور اپنے منہ سے اوسکو زمین سے اُتھا کر اوس بتھے فقیر کی جھولی میں تالدینا اور اگر کوئي شخص روتی پھینکدینا تو و \* کنا اوسے ند چکھنا جب تک که اوسے اپنے مالک کے هاتھہ سے نه پاتا \*

## 1. Translate into English:

G.

बहुतों का मत यह है कि लाड़ प्यार से लड़के विगड़ जाते हैं पर विचार से देखा जाय तो वालकों में अच्छी अच्छी वातों का अड़ुर प्यार ही से जनता है। विलायत के एक विद्वान ने लिखा है कि मेरी नां के बार वार घूमने ने मुक्ते चित्रकारों में प्रवीण कर दिया। गुक्त जितना पाठणाला में भय और ताड़ना दिखला कर वर्षों में सिखला सकता है उतना अपने घर में लड़का मां के सहज को ह में एक दिन में सीख लेता है मां के व्यभाविक प्रेम का प्रमाण इमसे वढ़ कर श्रीर क्या मिल सकता है कि लड़का कितना ही रोता हो या उदास हो ली भी मां के गोद में जाते ही चुप हो जाता है। प्रसव के समय की पीड़ा वची के पालन पीपण की चित्ता, उसे नीरोग और खुखी देख कर चित्त का हुलाम, उसे बीमार और उदास देख कर विकल होना, ये सब वातें माता ही में पायी जाती हैं। लड़का जब कुपूत और निकम्मा निकल जाता है तो वाप उसका लाथ नहीं देता।

घर से निकाल बाहर कर देता है। पर मां बहुधा अपने पित की त्याग कर निकास पुत्र का साथ देती है। दो चार नहीं वरन हजारों ऐसी मां देखने में आयी हैं जिन्हों ने लड़के के बचपन ही में पिता के न रहने पर बड़े बड़े क्षेण उठा उठा कर अपने पुत्र की पाला और उसे पढ़ा लिखा कर सब मांति रामर्थ और योग्य कर दिया। नाता का एक वार का प्रोत्साहन पुत्र के लिये जैसा उपकारी और उसके चित्त में प्रभाव उत्पन्न करने वाला होता है वैसा पिता की सी बेर की ताड़ना भी नहीं होती॥

H.

शहर डिल्ली के एक प्रन्धे भिखमंगे के कुत्ते के विषय में यह लिखा गया है कि न केवल वह जानवर अपने खामी की बिपत्तयों से बचाकर लिये फिरता या वरन उसने उन गलियों और उन मकानों की भी पहचान लिया था जहां उसके मालिक की दो तीन बार हर हफ़े में भीख मिला करती थी। जब कभी उन गलियों में से किसी में पहुंचता जिस से कि वह बहुत परिचित होगया था वह उसको छोड दूसरे गली में न जाता जब तक हर एक घर पर हाजिर हो न लेता जहां उसके मालिक का मांगना बहुधा सफल हुआ करता था। जब वह भिल्क भीख मांगने लगता तब वह कुत्ता सस्ताने के। पड़ रहता। फिर ज्यों ही भीख मिल जाती या न मिलने का जवाब मिल जाता त्यों ही कुत्ता आप ही स्राप उठ खड़ा होता स्रीर बिना स्रपने मालिक के हुक्न या इशारे के उसके आगे के घर की ओर बढ़ता। जब काई मनुष्य खिड़की से एक पैसा फेंक देता तब उस कुत्ते की बुद्धि और चौकसी देखने में आती थी कि वह उस पैसे की खोज में इधर उधर ढूड़ता फिरता और अपने मुंह से पैसे के। जमीन से उठा कर उस बूढ़े भिचुक की फीलों में डाल देता। श्रीर अगर केर्क्ड मनुष्य रोटी फेंक देता तो उसे न घी खता जब तक कि उसे अपने खामी के हाथ से न पाता॥

#### MATHEMATICS.—FISRT PAPER.

1. (a) Simplify:

$$\frac{7\frac{1}{2}}{6\frac{1}{2}} + \frac{1\frac{1}{2} - \frac{2}{5}}{1\frac{1}{2} + \frac{2}{3}} \div \frac{7}{15} \text{ of } \frac{1}{2}$$

$$1 + \frac{2}{4\frac{1}{2}}$$

- (b) Find the value of  $\frac{1}{\sqrt{8}}$  correct to four places of decimals.
- 2. (a) Add together 175 of 1 ton, 183 of one cwt. And 193 of 1 lb. and reduce the sum to the decimal of 10 tons.

(b) Find, by Practice, the rent of 3 acres 1 road; 27 poles of land at £ 16s. 8d. per acre.

- 3. By selling a horse for Rs. 50 a man lost 4 per cent!; find what would have been his gain or loss per cent, if it had been sold for Rs. 60.
- 4. Find the discount on Rs. 1,000 due 3 months hence at 4 per cent. per annum.
- 5. A person transfers £ 1,000 stock from the 4 per cents, at 90 to the 3 per cents, at 72; find the alteration in his income.
  - 6. (a) Find the H.C.F. of  $x^4 5x^2 + 4$  and  $x^5 11x + 10$ .
    - (b) Extract the square root of

$$a^2 + (1 + a^2)(1 + a)^2$$
.

7. Simplify:

$$\frac{(b+c)(x^2+a^2)}{(a-b)(a-c)} + \frac{(c+a)(x^2+b^2)}{(b-a)(b-c)} + \frac{(a+b)(x^2+c^2)}{(c-a)(c-b)}.$$

8. Solve:

(a) 
$$\frac{1}{x+2} + \frac{1}{x+10} = \frac{1}{x+4} + \frac{1}{x+8}$$
  
(b)  $\frac{x+3}{5} = \frac{8-y}{4} = \frac{3(x+y)}{8}$ 

9. If a, b, c, d are in continued proportion, prove that:

(i)  $a:d=a^3+b^3+c^3:b^3+c^3+d^3$ .

(i)  $a: a = a^3 + b^3 + c^3 : b^3 + c^3 : a^2 d = b^3$ .

10. Coffee is brought at 1s. and chicory at 3d. per lb.; in what proportion must they be mixed, that 10 per cent. may be gained by selling the mixture at 11d. per lb?

## MATHEMATICS.—SECOND PAPER.

1. (a) Triangles on equal bases, and between the same parallels, are equal in area.

(b) Shew that a trapezium is bisected by the straight

line which joins the middle points of its paralles sides.

2. If the squre described on one side of a triangle be equal to the sum of the squares described on the other two sides, then the angle contained by these two sides shall be equal to a right angle.

3. From two given points on the same side of a given straight line, draw two straight lines, which shall meet in the

given straight line and make equal angles with it.

4. If a straight line is divided equally and also unequally, the rectangle contained by the unequal parts, and the square on the line between the points of section, are together equal to the square on half the line.

5. (a) The straight line drawn from the centre of a circle to the point of contact of the tangent is perpendicular to the

tangent.

(b) If two circles are concentric, all tangents drawn from points on the circumference of the outer to the inner circle are equal.

6. Inscribe a circle in a given triangle.

7. A plank 17 feet long rests vertically against a perpendicular wall. How far must the bottom end be pulled out to lower the top end 2 feet?

(b) How often will a wheel 4 feet 2:4 inches in

diameter turn round in 2 miles? [ $\pi = 31$ .]

8. (a) The sides of a triangle are 51, 52 and 53 feet; find the length of the perpendicular from the opposite angle on the side of 52 feet.

(b) How long will it take a man to walk round a square

field containing 40 acres, at the rate of 3 miles an hour?

9. An equilateral triangle is inscribed in a circle of radius 2 inches; find the area of the three segments exterior to the triangle [ $^{\pi}$  =3:1416;  $\sqrt{3}$ =1:732.]

10. Draw a plan, and calculate the area in acres, roods, and poles of a field from the following notes, the lengths being expressed in links:—

Ĩ	to D 1000	
1	800	300 to C
to E. 100	650	)
i i	500	100 to B
to F 300	340	ì
From	A	go North.

#### ARABIC.—FIRST PAPER.

I. (a) Translate the following into English and explain the allusions:—

بعض الهلوك حاصر بعض البلان وكان معه عساكر عظيمة بكثرة الرجال والعدد فكتب الهلك الهاصرالي صاحب البلد كتابا بشير اليه بان يسلم البلد اليه وفكر ماجاء به من الرجال والاصوال وفي جهلة الكتاب قوله تعالى حتى اذا اتوا علي وادي النهل قالت نهلة يا ايها النهل المفلوا مساكنكم لالمعطمنكم سليمان وجنون وهم لايشعرون فلما وصل الكتاب الي صاحب الباد تامله وقراء علي خواصه وقال من يجا و به

على هذا - فقال بعض الكتاب يكتب اليه قوله تعالى فتبسم ضاحكا من قولها \_ فاستحسن الحاضرون جوابه \*

(b) Rewrite the above passage with diacritical marks (اعراب) set over each letter.

Translate the following into English and explain the allusions

اسرفت في القول فق**د** ` (a) فقالت الظيية قد افهض الى المعالى واجسر ولآ تبائي و خد من الزمان حظا فانت قان الههم العليد والههيم الابيه منك والامنيه تقرب الهنيه \* وربها نال الفتى اضعات ما كان رجا بنفسه کم بذکر اولا خطا عنتر

قدشاب راسي و رأس الحرص لم يشب (b) ان الحربص على الدنيا لفي تعب

باالله ربك كمبيت مورت به ﴿ قَدْ كَانَ يَعْمُو بَا لَلَمُاتِ وَالطُّوبُ طارت عقاب المنايا في جوابه \* قصار من بعدها للويل والحرب احبس عنابك لاتجمع به طلبًا \*فلاو ربك ما الا رزاق بالطلب قد ياكل المال سلم يحف راحلة \* ونترك المال س قد جدفي الطلب

III. (1) Name the author of the poetical piece (a) in the above question and give parts of speech of the two نع used in the first line of the same piece.

(2) Explain the simile used in the extract (b).

VI. Give the singular or plural of the following, as the case may be:-

ففس \_ عدد \_ وأدي \_ قاضي \_ جنود \_ هجم \_ منية \_ امنية

روض - حر \_ اعوان \_ بيت \*

#### ARABIC.—Second Paper.

-- Translate into English:

ماقدم ساكت الافليلا- ان البلاء موكل بالبغطى - آفة العلم
النسيان - اول الغضب جنون وآخرة تدم - الجاهل عدو نفسه
فكيف يكون صديق غيرة - راس الحكهة مخافة الله - زرغبا
تزدن حبا - ساطان بلا عدل كتير بلا ماء - عند الامتحان يكرم
المرء اويهان - عالم بلا عهل كسحاب بلا مطر - عز من قنع
وذل من طبع - العادة طبيعة ثانية - فلن العاقل خير من
يقين الجاهل - يوم المظلول علي الظالم اشد من يوم الظالم
علي المظلوم - أياكم والطمع فاندالفقر العاضر - لا يعرف الشجاء
الا عند الحرب ولا الحكيم الا عند الخضب ولاالصديق الا عند
المحاجة اليد - النييمة من الخصل الدميمة - سوء الخلق يدل

2. Translate into Arabic with diacritical marks,

Never tell an untruth. Consider well before you make a promise. Sinserity and truth are the foundation of all virtue. Idleness is the root of all evil. Honour thy father with thy whole heart. God is the source of all good. He sends rain to water the barren land. I have a great desire to learn the Arabic language. I will go to that school to-morrow. Yusuf is clever, he learns very fast. Ahmad has a very good memory. Ismail was at the head of the class. How much money will you give us, father, every week?

## PERSIAN.—FIRST PAPER.

Translate the following into English:—

تلجید بے ارادت عاشق بے زر است وروند پی معرفت (۵)

مرغ بے پر و عالم بے عہل درخت بے بر وزاهد بے علم خانه

یے در مراد از نزول قرآن تحصیل سیرت خوب است به ترتیل
سورۃ مکتوب ﴿

مدينة رسول الله صلي الله عليه وآله وسلم شهرے بر كنار (٥) صحرا نهاده و زمين نبناك و شوره دارو آب روان است اما اندك و خرماستان است و آنجا قبله سوي جنوب أفتاده است و مسجد رساول الله عليه و آله و سام چندان است كه مسجد الحرام حظيرة رسول الله عليه السلام در بهلوي منبر مسجد است «

2. Explain the following in Persian as clearly as you can:—

ا ے چرخ فافلی که چه بیداد کرده \* و زکیس چهادریس ستم آباد کردهٔ اے زادهٔ زیاد نکرد اسب هیچگه \* نمرودایس عمل که توشداد کردهٔ

in the following expressions: \_\_\_\_\_\_

کاک فصاحت بیانی ۔ کام یزید - برگ درخت شقاوت ۔ باغ دین \*

4. Give the meanings of the following expressions and make short sentences using them:—

درار بر آوردن در پوستین کسے رفتی۔به مستفل دادی۔ اختر بر گشتی ۔ سید نامه ۔ دم در کشیدن \*

5. Give the derivation of the following words:—

دشین \_ بغداد \_ درویش \_ فرزانه \_ پارسا \_ آئینه \_ بازار = شهشیر \_ سپاس \*

- 6. Give the Arabic plurals of the singulars and vice versa in the following:—
  - غم ـ نواع ـ حور ـ بقعه ـ ندما عندايب \*
  - 7. Define the following, giving examples of each :-
    - مفعول مطلق مفعول اه ـ مسند اليه ـ تهيز \*
- 8. Analyse the following couplet according to Persian grammar:—

بتر زانم که خواهي گفت آني ۞ که ۱۵نم عيب سن چون من نداني

## PERSIAN.—SECOND PAPER.

- 1. Translate the following passage into English:—
  امانت معهوه ترین اعهال و مسعوه ترین افعال استخائن را کسے دوست نداره وازامین خالق و هم مخلوق راضی
  باشد و جهله امور جزوی و کلی جهان وابستهٔ امانت ست و امانت هر عضوے از اعضائے انسانی علحه است چه
  امانت چشم آنست که چیزهاے دیدنی را دیدن و نا دیدنی
  را هرگز نظر نا کردن و ههچنین امانت گوش آنست که
  اتوال ناشایسته را نشنیدن و شنیده را که قابل نکر نباشه
  پیش دیگران بیان نا کردن و امانت زبان آنست سخن
  راست گفتی و بدروغ و بهتان میل نه کردن \*\*
  - 2. Translate the following sentences into English:
- بندہ ایں روزها مشغول کارهائے زیادہ هستم \*

دیشب میتاب خوب بود قدرے درباغ گردش کرده خوابیدم (2)

- شها مي توانيد كه از عهده اين كآر بر آئيد \*
- این بچه ساعت به ساعت یا میشود دست به چراغ (4)

میگذارد و آخر میسوزد «

تو چرا این قدر بلند حرف میزنی « (5)

مَيْخُواهُمْ تُوتِّيَ أَطَلَقَ شَهِا خُوابٌ كُنْمُ ﴿ (6)

3. Translate the following into Persian:

We live in a time of hurry and hard work; it is very necessary, therefore, that we should have rest and change of occupation, Boys and girls at school, who spend so many hours in poring over books, should have regular holidays and sufficient time of play every day. They need not be idle, a change of occupation often being better than a complete rest. For the man who works with his hands physical recreation is not so necessary; he finds sufficients exercise in his daily employment. It is better that he should spend his spare time in reading or study. Many working-men have attained to great honor by the diligent use of their leisure. Few have the ability to be great writers or men of science.

## SANSKRIT.—FIRST PAPER.

- 1. अय तस्य तां धर्नीपदेशनां श्रुत्वा शशक आह । भी किपिञ्जल एष नदीतीरे तपस्त्री धर्मवादी तिष्ठति । तदेनं पृच्छावः । किपिञ्जल आह । ननु स्वभावतोऽयमस्माकं शत्रुभूतो- अस्ति । तद्दूरे स्थिती पृच्छावः । कदाचिद्स्य व्रतवैकल्यं सम्पद्यते ।
  - (a) State the मक्नांत and प्रस्थय in तपस्ती and वैकल्यम्.
    - (b) Parse the underlined words.
  - (c) Decline एतत् and अस्मत् in the accusative case.
  - 2. Translate into English:-

कृत्रिमं नाशमभ्योति वैरं द्राक्त कृत्रिमेर्गुणैः।
प्राणदानं विना वैरं महजं याति न चयम्॥
यथा द्योकेन चक्रेण न रथस्य गतिभवेत्।
एवं पुरुषकारेण बिना दैवं न सिध्यति॥

- (a) Conjugate the roots of अभ्येति, याति and सिध्यति in the preterite निट्.
  - (b) Parse the underlined words.

3. Translate into English or Hindi:-

प्राणा यथात्मनामीष्टा भूतानापि ते तथा।

प्रात्मीपम्येन भूतेषु द्यां कुर्वन्ति माधवः॥

नैतानतिणयेज्ञातु नात्यक्षीयान पयेदृत्।

नित्यं परिचरेचीव तद्वे सुकृतमुत्तमम्॥

- (a) State the rules of Sandhi in the underlined words.
- (b) Conjugate the roots of क्वंदित and अपनीयान् in the second preterite लिइ.
  - 4. Write out in Sanskrit prose order :-
    - (a) श्रयोध्या नाम नगरी तत्रामीक्षीकविश्रुना । मनुना मानवेन्द्रेश या पुरी निर्मिता स्वयम् ॥
    - (b) तां तु राजा दशरणी महाराष्ट्र विवर्धन: । पुरीमावासयामाम दिवि देवपतिर्यया ॥
    - (a) Write down the meaning of বিশ্বনা and ছিবি.
- (b) Re-write extract (b), changing the active into the passive construction.
  - 5. Write out the purport in English or Hindi:—
    प्रारम्भगुर्वी चियती क्रमेगु
    लध्बी पुरा दृद्धिमती च पञ्चात्।
    दिनस्य पूर्वाद्धेपराद्धेभिना
    द्यायेव मेत्री खलसज्जनानाम्॥

#### SANSKRIT.—SECOND PAPER.

1. Compose the following sentences in Sanskrit:

(a) One sentence with the Present Tense (त्रर्) Third Person—Singular—form of the roots 'गग'; the Accusative (द्वितीया)—Singular form of 'प्रयाग'; and the Ablative (प्रज्यमी) Singular of 'काशी'

- (b) One sentence with the First Preterite (লছ)—Third Person—Singular—form of the root 'মু'; the past participle form of the root 'হ্য়'; and the Nomination (সথন) Singular form of 'ন'
- (c) One sentence with the Imperative (লাই) Third Person—Singular—form of the root 'ক্ষয়'; the Accusative (ছিনামা) Singular of 'ৰানা'; and an appropriate adjective qualifying the latter.
  - 2. Translate into English:-
- (a) श्रुत्त रे पौराः! अयं वसन्तसेनाचातकश्चासद्त्तो वधतम्भन्नीयते। तद्यदीदृशङ्कर्भ केऽपि कुर्वीरन्दर्खमप्येता-दृशम्यापृयुः।
  - (b) दुःखसन्तापेन पच्चन्त इव सेऽङ्गानि, क्षण्यत इव हृद्यम, प्रध्यत इव दूष्टः, ज्वलतीय शरीरस्। अत्र यत्प्राप्त-कालन्तत्करातु भवाम्।
- (c) देव रामतीर्थे स्त्रात्वा प्रत्यागच्छता सया काननसूसी विनतया क्रयाऽपि धार्यसाससुक्जवलाकारङ्कुमारं विलोक्य सादरमभागि।
  - (d) यदि सत्याभिसन्धस्तवं राजन् राजन्प्रवासय। नव पञ्च च वर्षाणि निर्जने गहने वसे॥
  - (e) युधिष्ठिरस्तु कौन्तेया सयसाहूय सत्वरस्। कारयामास वै तेन समामहुतदर्शनास्।।
  - (f) दानम्मोगो नाशस्तिको गतयो अवन्ति वितस्य। यन ददाति न स्ङ्को तस्य दतीया गतिभविता॥
  - (g) विद्या नाम नरस्य रूपमधिकस्त्रच्छक्षुतं धवस् विद्या भोगकरी यशः छखकरी विद्या गुरूषाङ्कुरुः । विद्या बन्धुननी विदेशगमने विद्या परं देवता विद्या राजछ पूजिता न तु धवं विद्याविहीनः पशुः॥

## 3. Translate into Sanskrit:-

(a) Dasaratha performed (use the root নৰ্) a sacrifice on the banks of the Sarayu.

(b) The King sent (use the root & with the Upasarya A)

me to watch the enemy.

(c) I could (use the root na,) not ascend the top of the

mountain.

(d) In the battle the horses of the warriors were killed; but they obtained (use the root जाप्) others and fought again.

#### HISTORY.

1. What are said to be the advantages and disadvantages of the system of village communities that prevailed in early times in India?

2. In whose viceroyalty were Provincial Contracts begin? Describe their nature and the benefit resulting from them to the

Provinces.

3. Explain the following terms:—Imperial Service Troops, Additional Police, Budget Estimate, Home Charges.

4. What do you know about the reign and kingdom of Asoka?

5. Name in order, giving the period of rule of each, the different dynasties of Pathan Kings that reigned at Delhi down to the time of the first battle of Paniput. Under what circumstances was this battle fought, and what were the consequences which followed from it?

6. Write an account of the First Mahratta War under the following heads:—(i) duration, (ii) cause, (iii) principal events (iv)

name and terms of concluding treaty.

7. State what you know of the following, giving the date of each:—the Confirmation of the Charters, the Statute of Labourers, the Act of Supremacy, the National Covenant, the Self-denying Ordinance.

8. Mention what happened at the following places to make

them famous in English history.

Senlae, Khartoum, Amiens, Runnimede, Balaclava, Fothe

ringay.

9. Relate the important doings of any three of the following men:—Simon de Montfort, Protector Somerset, Sir John Eliot, Judge Jeffreys, the first Duke of Marlborough.

#### GEOGRAPHY.

1. What is meant by a river-basin? Make a rough sketch of

any large river basin known to you.

You have often observed the roads on a rainy day. Explain what important lessons regarding rivers and the work they do can be learnt from such observation.

2. To what branch of the Caucasian Race does the population of Europe belong? This branch admits of four prominent divisions; state what they are. Into what three main Zoologie Provinces may Asia be divided? Name some of the more important classes of Asiatic Mammals.

3. State approximately on what meridians of longitude the following towns are situated: Madras, Calcutta, Adelaide, Paris and London? What is meant by saying that the positions of places on our geographical maps are given in terms of angular distance? Prove that if the local time and the Greenwich time are known longitude of a place can be found.

4. What portions of land are separated, and what seas connected, by the following straits:—Gibraltar, Bebal-Mandeb,

Malacca, Magellan and Behring?

5. Draw a rough map of India showing the more important of its railway systems. What reasons can you assign for the choice of route in each case?

- 6. What is meant by the material resources and the manufacturing industries of a country? How do they affect its welfare? What are commercial commodities? From what countries are the following obtained: eopper, wheat, timber and wool? If you wished to bring a eargo from California to Bombay what route would you take?
- 7. Compare the great mountain ranges of Europe with those of Asia as regards:
  - (1) their general direction;

(2) height.

Why is the climate of Europe milder than that of Asia?

- 8. Name the principal manufacturing countries of Europe. Which of these are coal and iron producing countries? Explain how it is that the great iron foundries of the world are found near coalfields.
- 9. What do you know of the following: Newcastle, Alleghanies, Hobart, Mexico, Kilimanjaro, Baikal, Martinique, Tucatan, Berars, Dartmoor, Amazon, Bucharest?

## GEOMETRICAL DRAWING.

## Time allowed -2 hours.

NOTE.—Scale and figures to be neatly inked in, all construction lines to be left in pencil.

1.—Draw a scale of miles and furlongs, in which 11 furlongs equal 1 of an inch.

2.—About a circle of 21 inches diameter, construct a

regular heptagon.

3.—Construct a triangle with a perimeter of 4 inches, the

sides to be in the proportion of 2, 3 and 4.

4.—Draw an interior tangent to two circles of 1 inch and 1 inch radii, the distance apart of their centres being 21 inches.

5.—In a square of 2-inch side, inscribe an isosceles tri-

angle the length of the base being 17 inches.

6.—Within a circle of 2-inch radius inscribe a triangle the angles of which are 37, 73', and 70'.

#### ELEMENTARY PHYSICS & CHEMISTRY.

1. Distinguish as clearly as you can between solids, liquids, and gases. Mention some solids that can easily be made into liquids, and some liquids that can be made into gases. How would you make the change?

2. Mention the common properties (i.e., whether hard, combustible, soluble, crystalline, opaque, porous, or the reverse) of

the following substances:-

Glass, lead, india-rubber, charcoal, chalk, salt, iron, leather,

and ice.

3. What are crystals? Do all crystals require water for crystallisation? If not, mention some which do not. How would you make crystals of salt, sulphur, and sugar?

4. Draw along a page of your answer book a line as nearly as possible six inches long. Divide the line into inches, and divide

one of the inches into ten equal parts.

Also draw a square whose area is four square inches.

5. What is the difference between the mass and the weight of a body. What is the cause of weight? Which is the heaviest a

pound of lead or a pound of cotton wool? Give reasons for you answer.

6. Describe a barometer and indicate its use.

7. State clearly the principle of Archimedes. Explain carefully how you would determine the density of an irregular lump of stone.

8. What is meant by temperature? Why is not your hand a good indicator of the temperature of any substance? What is the

thermometer and why is it a good indicator?

9. Sugar dissolves in water; marble dissolves in Hydrochloric (Muriatic) acid. Explain what you see happening in each case and how these actions differ from one another.

#### BOOK-KEEPING.

1. Explain the terms Debtor and Creditor as applied to Book-

keeping. Give examples to illustrate your answer.

2. What is journalising? Journalise the following transaction.
(a) Smith returns to me a loan of Rs. 100 plus Rs. 5 Interest. (b) I pay Rs. 337 to Mr. King on account of Mr. Price by my cheque on the National Bank.

3. What is the object of a Trial Balance?

4. What are Nominal Accounts? Mention the chief, and state their purposes.

5. Explain Capital, Assets, Liabilitics, Balance, Endorscment.

6. What are opening and closing entries? How are they obtained?

7. Journalise these transactions of W. Spencer; then post them. Balance and close the Ledger.

Assets. Cash Rs, 200, Bank Rs. 800, Brandy Rs. 150, Sherry Rs. 200, Port Rs. 120, Thomas Rs. 200.

## Liabilities Due to Dixon Rs. 100.

Apl. 1. Sold to Gilbert shorry for cheque Rs. 80.

4. Received cheque from Thomas Rs. 100 and endorsed it to Dixon.

7. Sold brandy to Dixon Rs. 80.

10. Received from Dixon cheque Rs. 80.

12. Bought of Jones brandy Rs. 200. Paid duty on it Rs. 30.

14. Advanced for petty cash Rs. 15.

- 19. Sold to Jones, brandy Rs. 80.
- 22. Paid into Bank Rs. 100.
- 23. Sold Port for cash Rs. 75.
- 24. Bought stationery by cheque Rs. 20.
- 30. Rent due Rs. 200. Rent paid Rs. 100.
  Petty cash payments Rs. 10.
  Port on hand Rs. 100.
  Sherry on hand Rs. 160.
  Brandy on hand Rs. 300.
- 8. Name the subsidiary books used in book-keeping when a waste book is not kept. Explain cleary the purpose of each.

### POLITICAL ECONOMY.

- 1. What are the advantages of Organisation in Labour? Discuss the most important of them.
- 2. What are the factors of Production? Show the manner in which each factor enters into the production of a cloth-coat.
- 3. Show that in modern industrialism the employer generally undertakes the risks of production. Is there any compensation for these risks?
  - 4. Enunciate and explain Ricardo's Law of Rent.
- 5. How do you account for the greatly varying amounts of remuneration obtained by a miner, a great musician, a doctor, and a brick-layer?
  - 6. Account for the success which has attended the application of Co-operation to shop-keeping in large industrial centres. Why has it not prospered in connection with productive enterprises?
  - 7. What qualities should a substance possess which is employed as a general medium of exchange?

### ENTRANCE AND SCHOOL-FINAL EXAMINATIONS, 1906.

#### ENGLISH:—FIRST PAPER.

#### Section A.

- 1. Refer the following passages to their context and explain the portions underlined:—
- (a) Two thousand three hundred years have sped since he braced himself to perish for his country's sake in that narrow, marshy coast road, under the brow of the wooded crags, with the sea by his side. Since that time how many hearts have glowed, how many arms have been nerved at

the remembrance of the Pass of Thermopylæ, and the defeat that was worth so much more than a victory!

(b) There was no bar to the door. Yes there was. Catherine Douglas, worthy of her name, worthy of the cognisance of the bleeding heart, thrust her arm through the empty staples to gain for her sovereign a few moments. more for escape and safety! But though true as steel, the

(c) "Good friend!" said Hal, and sighed the while, "Farewell! and happy be; But say no more if thou'dst be true,

That no one envies thee.

Thy mealy cap is worth my crown, Thy mill, my kingdom's fee!

Such men as thou are England's boast, O miller of the Dee!"

(d) "Let my obedience then excuse My disobedience now, Nor some reproof yourself refuse

From your aggrieved Bow-wow: "If killing birds be such a crime (Which I can hardly see),

What think you, Sir, of killing time, With verse addressed to me?"

Write a short account of one of the following: George the Triller; Agostina of Zaragoza.

(The account not to take up more than two pages of the answer-book.)

1. Bring out clearly the meaning of each of the following:\_\_

(a) A Golden Deed must be something more than

(b) "It is with iron, not gold, that Romans guard their country."

(c) " Hail, Cosar, those about to die salute thee!"

(d) "To thee the reed is as the oak."

(e) Everything that heard him play, Ev'n the billows of the sea, Hung their heads and then lay by.

2. Relate the "Golden Deed" in connection with the Birkenhead.

(Your answer should not occupy more than one page.)

3. Write brief notes on the following:—Archbishop Feeleep; the Ghibellines: Abou Ben Adhem; Casabianca; the Monthyon" Prize of Virtue."

#### Section C.

1. Young Franklin was now to distinguish himself in a new character. The perusal of the works of others suggested to him the idea of trying his own telent at composition; and his first attempts in this way were a few pieces of poetry. Verse, it may be observed, is generally the earliest port of composition attempted either by nations or individuals, and for the same reason in both cases—namely because poetry has peculiar charms for the unripe understanding. Franklin's poetical fit, however, did not last long. Having heen induced by his brother to write two ballads, he was sent to sell them through the streets; and one of them, as least, being on a subject that had just made a good deal of noise in the place, sold, as he tells us, proligiously. But his Pather who, without much literary knowledge, was a mean of a remarkably sound and vigorous understanding, soon brought down the rising vanity of the young post, by pointing out to him the many faults of his performances, and convincing him what wretched stuff they really were. Having been told, too, that verse makers were generally beggars, with his characteristic prudence he determined to write no more ballads.

In the above passage explain the words and phrases italicized.

Higher, higher will we climb, Up the mount of glory, That our names may live through time, In our country's story;

Happy, when her welfare calls, He who conquers, he who falls.

Deeper, deeper let us toil In the mines of knowledge;

Nature's wealth and Learning's spoil Win from School and College; Delve we there for richer gems

Than the stars of diadems. Onward, onward may we press

Through the path of duty; Virtue is true happiness, Excellence true beauty;

Minds are of celestial birth, Make we then a heaven of earth. Explain the above passage, stanza by stanza.

ENGLISH.—SECOND PAPER.

1. Define Nominative Absolute, Cognate Object, Case in Apposition, and Gerund, giving examples of each. 2. Parse the word (a) But and (b) That, in the follow: ing:

(a) (1) There is no rose but has a thorn. (2) None but the brave deserve the fair.

(3) Man wants but little here below.

(4) We admit that Hawkins was a famous navigator. But—there is always a but—he was a

(b) (1) I must now go, not that I want to go, but I have (2) Mark but my fall, and that that ruined me.

(3) Rome shall perish—write that word In the blood that she has spilt. 55  $\cdot$ 

- (4) He said that he could not come to dinner.
- Point out and explain the difference in each pair of the following sentences:-

(1) Shall I shut the door? May I shut the door?

(2) He was seized by the police as he had attempted to run away.

He was seized by the police as he attempted to run away.

#### Section E.

- Expand the following words and phrases in italies into clauses, and state the kind of each clause thus formed :-
  - (1) A bird in hand is worth two in the bush.
  - (2) Beaten at one point we made for another.(3) To reign is worth ambition, though in hell.

  - . (4) To tell the truth, I dislike him.
  - (a) Form Nouns from— 5. Break, sell, move, draw, dry.
    - (b) Form Adjectives from— Grade, angle, land, vice, crime, line.
    - (c) Form Verbs from— Clear, clean, right, glass, fruit, hand.

In each case construct a sentence shewing the use of the derived word.

Analyse in tabular form :-

When a horseman who had been sent to reconnoitre reported that the Greeks were amusing themselves outside the walls, Xerxes asked what this madness might mean.

#### Section F.

7. (a) Construct short sentences to show the correct use of-

> Rather than; no sooner; all but; more or less; provided that; would that.

- (b) Insert appropriate prepositions in the blanks in—
  (1) Religion and Membership may differ widely—
  - (2) You may rely—what I say. (3) We may confide—his honesty.
- Parse the words in italics in the following:-
  - (1) The more it rains, the cooler it is. (2) I had but one-house, as you know; since then I
  - (3) They stood gazing where he sank. (4) It were best let alone.
- 9. "How, boy!" said the Queen, "neither gold nor garment? what is it thou wouldst have of me then?"

"Only permission, Madam, to wear the cloak which did you this triffing service.

"Permission to wear thine own cloak thou silly boy?" asked the Queen. "It is no longer mine," said Walter, "when your Majesty's foot touched it, it became a fit mantle for a prince." Report the above conversation in the indirect form—

(1) As the Queen would report it to one of the ladies

(2) As the boy would report it to a friend;

(3) As a bystander would report it to the same friend.

URDU.—THIRD PAPER.

Section G. Translate into English :-(a) ایسي هنسي اور مسخراین کسیسے کرني نه جاهتے که جسکا نتیجه برا هو - کبهی کبهی ایسی حرکتوں سے برا نقصان پہونچھاتا ہے بدن پر سخت چوت لگنی ہے اور کبھی جان تک نوبت آتی ہے۔ولایت کے کسی بورتنگ هوس میں ایک دلاور طالبعلم رهنا تها ـ وه بهوت پریت کی باتونپر کہ یقین نہیں کو تا تھا۔اوسکے ساتھیوں نے یہ صلاحکی کھ

اسکو ایکدن بھوت سے ترانا چاھئے۔انھوں نے اوس سے کہا که دیکھو اس برودنگ هوس میں بھوتونکا برا گربر مچا ھے۔ همنے آیک بہوت کو اپنی آنکھوں سے دیکھا ھے۔ آوس طالبعلم نے شنسکر کہا کہ کیا پاگل هوگئے هو ? بهاد بهوت بهي كوئي چیز ہے عمیں اپنی آنکھوں سے جبتک نہیں دیکھتا تبتک أسير يقين نهين كُرتا - أن لوگوں نے كها كه يهاں آجكل اكثر دكياً تَي پرتا شے - آسكا كوئي علاج كرنا چاهئے - وہ بولاً علاَج أُورُ كيا مين آجسے آيني پستَول مين گواي بهر كر ركه ونكا ـ كوئي شرير أناسي اكر آيسًا كريكًا تُو مارآجايگا ـ ورنہ جان اونگا کہ بھوت سپج ہے۔ کچہ دنوں کے بعد رات کے وقت جب سب لوگ سوگئے تب صلاح کاروں میں سے ایک شخص چپرچاپ ارس دلاور طالبعلم کے کمرے کے اندر گھس كَيْنَا أُورُ كُالِّحَ كَيْرُونَ سَمَ أُرْسُو تَأْيِنَا أَيْنِي تَثَيِّنِ لِيُبَيِّكُمُ أُوسِكُمَ پلنگ کے پاس پہونچکو ایک گرشمسے کچم آواز کی ۔ اس حرکت کرنے کے قبل شي سے اوسنے اوسکے پستول کی گوای نکال لي تټي 🌣

## Section H.

وی طالبعلم اس آواز سے جاک او تھا اور ادیکھا کہ ایک کالے روپکا کوئی شخص کھڑا ھے - وہ چہانک او تھا اور پستول کو اپنی تکیه کے نبیعے سے نکالکر بولا کہ دیکھو جی اگر تم بررت نک هوس کے کوئی هو تو میزی یہ بات ہے ہے کہ هنسی اور مسخوا پس چیور دو نہیں تو تہماں ہور کہ اس نہیں اور مسخوا پس چیور دو نہیں تو تہماں ہور گیا - پر گرتی هی ہے - وہ شخص اسی بھی آئے برهتا هی گیا - پستول کی آواز هرئی لیکس اش نہیم کری اور اوس کالی شکل نے پستول کی آواز هرئی کو چپھابال اوس پر پہینک دیا جب پستول کا چلافا خالی گیا تہ تو وہ طالبعلم مارے تر حب پستول کا چلافا خالی گیا تہ تو وہ طالبعلم مارے تر کے بیہوں ہو گیا ۔ بیوت کی شنای بندیوالا آدسی تب زور

سے هنس کر چلدیا اور کالے گہرے اولتار کر جب لوتا تو کیا دیکھتا ہے کہ اوس طالبعلم کی لاش اوسکے بسترے پر پری هوئی ہے \*

(d) غصہ اور عقل میں دشہنی ھے۔ غصہ ایک قسم کی بہتی آندھی ھے۔ جب غصہ کئی آندھی آئی ھے تب کسیکی بات سنائی نہیں پرئی ۔ اوسوقت جو چاھے کرئی کھے سب بیکار ھوتا ھے۔ غصہ زھر ھے۔ کیونکہ اوسکے نشے میں بھلے برے کا خیال نہیں رھتا ۔ غصور آدمی ھر کسی پر اور ھر ایک بات پر بلا وجہہ بگتر کھتا ھوتا ھے۔ غصہ انسان کے چہوے کو سرخ اور اوسکی آواز کو روکھا کر دیتا

# HINDI.—THIRD PAPER. Section G.

## 1. Translate into English:

(a) ऐसी हंसी और मस्खरापन किसी से करनी न चाहिये जिस का नतीजा बुरा हो। कभी कभी ऐसी हंसी श्रीर मस्खरापन से बड़ा नुक्सान पहुंच जाता है। कभी श्रीर पर सख़ चोट लगती है। श्रीर कभी जान तक की नीवत श्राती है। विलायत के किसी बोर्डिक्न होस (कात्रावास) में एक साहसी विद्यार्थी रहता था। वह मृतमेत की बातों पर कुछ भी विश्वास नहीं करता था। उसके साथियों ने यह सलाह की कि इस की एक दिन भूत से डराना चाहिये। उन्होंने जाकर उससे कहा कि देसो इस खात्रावास में भूतों का बड़ा उपद्रव मया है। हम ने एक भूत की श्रपनी श्रांखों से देखा है। उस विद्यार्थी ने हंस कर कहा क्या पागल हो गये हो, मृत भी कीई बीज़ है। मैं श्रपनी श्रांखों से जब तक नहीं देखता तब तक इस पर विद्यास नहीं करता। उन लोगों ने कहा कि यहां आजकल अवसर दिखाई पड़ता है। इसका कोई उपाय करना चाहिये। वह बोला उपाय आरे क्या। में अपनी पिस्तोल में गोली भर रक्वूंगा। कोई दुष्ट मनुष्य ऐसा करेगा तो अवश्य मारा जायगा। नहीं तो जानूगा की भूत सच है। कुछ दिनों के बाद रात के वक्क जब सब लोग सा गये तब सजाहकारों में से एक गृत्स चुपचाप उस साहसी विद्यार्थों के कमरे में घुम गया और काले कपड़ों से सिरसे पैर तक देह की ढांक कर उसके पल कि पास पहुंच कर एक किनारे से कुछ गब्द किया। उमके घहले ही उसने पिस्तील की गोली निकाल की थी।

#### Section H.

वह विद्यार्थी इस शब्द से नाग उठा श्रीर देखा कि एक काला रूप का श्रादमी खड़ा है। वह घीक उठा श्रीर पिस्तील की श्रपनी तकिये के नीचे से निकाल कर योला देखी जी अगर तुम खात्राबास के कोई हो तो मेरी यह विनती है कि हंसी श्रीर मसखरापन छोड़ दो नहीं तो तुम्हारी लाश श्रम ज़मीन पर गिरती है। वह शहम एम पर भी श्रागे बढ़ता ही गया। पिस्तील की श्रावाज़ हुई पर लाश नहीं गिरी श्रीर उस काली शकल ने पिस्तील की गोली चुपचाप उस पर फेक दिया। जब पिस्तील का चलाना खाली गया तम्र तो विद्यार्थी मारे हर के बेहीश हो गया। भूत का रूपधारी मनुष्य ज़ोर से हंस कर चल दिया। काले कपड़े उतार कर जम्म लीटा तो क्या देखता है कि उस विद्यार्थी की लाश उसके विस्तरे पर पड़ी हुई है॥

(b) क्रीध और बिवेक में गत्रुता है। क्रीध एक प्रकार की बड़ी आंधी है। जब क्रीध की आंधी आंती है तब किसी की बात नहीं सुनाई पड़ती। उस समय चाहे कुछ भी के कि कहे सब व्यर्थ जाता है। क्रीध विष है क्यों कि उसके निर्म में के बुरे का द्वान नहीं रहता। क्रीधी हर एक बात पर और हर किसी पर बिना कारण बिगड़ खड़ा होता है। क्रीध मनुष्य के चेहरे की सुर्ख और उसकी आवाज़ की हरवा कर देता है।

#### MATHEMATICS.—FIRST PAPER.

1. A merchant has three kinds of wine; of the first kind 403 gallons, of the second 434 gallons, and of the third 465 gallons. What is the least number of full casks of equal size in which this can be stored without mixing?

2. Find the sum of money that is the same fraction of 5

crowns that Re. 1-8 as. is of Rs. 2-5 as. 4 p.

- 3. A sum of money amounts in 10 years at 4½ per cent simple interest to Rs. 2,972-8 as. In how many years will it amount to Rs. 4,356-4 as.?
  - 4. Extract the square root of 15848361.
  - 5. Divide  $2x^3y 7xy^3 + x^4 4y^4$  by  $x^3 xy y^2$ .
- 6. If the product of three successive odd or even integers be increased by four times the middle number, prove that the sum will be a perfect cube.
- 7. Resolve  $x^4-64$ , and  $x^3(y-z)+y^3(z-x)+z^3(x-y)$  into factors.

8. Simplify: 
$$\frac{1}{(1-a)(1-b)} + \frac{a^2}{(1-a)(b-a)} - \frac{b^2}{(b-1)(a-b)}$$

9. Solve: 
$$\frac{x-2a}{b+c-a} + \frac{x-2b}{c+a-b} + \frac{x}{a+b+c} = 3$$
.  
 $(x-1)^2 + (x+4)^2 + (x-8^2) = 36$ 

- 10. If 11 be taken from a certain integer we get the square of a whole number; and if 24 be added to the same integer, we get the square of the next greater number. Find the integer.
- 11. If a:b=c:d prove that ab+cd is a mean proportional between  $a^2+c^2$  and  $b^3+d^2$ .

## MATHEMATICS.—Second Paper.

1. The sum of the distances of any point within a triangle from its angular points is less than the perimeter of the triangle.

2. (a) Describe a parallelogram that shall be equal to a given triangle, and have one of its angles equal to a given

angle.

(b) Describe a rhombus equal to a given parallelogram and standing on the same base. When does this construction fail?

3. Divide a given straight line into parts, so that the rectangle contained by the whole and one part may be equal to the square on the other part.

4. (a) The diameter is the greatest chord in a circle.

(b) Through a given point within a circle draw the least possible chord.

5. (a) Inscribe a circle in a given square.

(b) Prove that a rhombus and a square are the only parallolograms in which a circle can be inscribed.

6. Given the vertical angle, perimeter, and altitude:

construct the triangle.

7. If a man walk from corner to corner of a square enclosure in 11 minutes, find to the nearest second how long he would take to walk round it.

8. Find in square yards the area of a path 5 feet wide surrounding a lawn whose length is 25 yards and breadth 21

yards.

9. In a circle of radius 54 inches, the height of an are is

3 inches, find the chord of half the arc.

10. Two equal circles each of radius 18 inches touch each other externally, and a common tangent (direct) is drawn to

them. Find the area of the space included between the circles and the tangent.

11. Draw the plan, and calculate the area in acres, roods and poles, of a field from the following notes.

•	Links.	- '
to E 400	to B 1,000 1,000 620 360	160 to D. 320 to C.
from	A	90 N. E.

## ARABIC.—FIRST PAPER.

- 1. Translate each of the following into English:
- (a) هِذَا مَا كَانَ مِن امرِهَا هِوَ أَمَا مِا كَانَ مِن سَيِّدُهَا فَعَهِمُ ﴿ فانه اتی الی داره و جلس علی فراشه و نادی یا کم فلم تجبه فقام مسرعا و نادى فلم يدخل عليه احد وكل جارية في البيت اختفت خوفا من سيدها \_ فضرج نعهة الي والدته فوجدها جالسة و يعاها على خدها - فقال لهايا اسي آين نعم - فقالت له يا ولدي مع من هي او ثق مني عليها وهي العجوز الصالحة-فانها خرجت معها لتَّز ور الفقراء و تعود - فقال و مني كان لها عادة بذالك و في اي وقت خرجت قالت خرجت بكرة النهار ـقال و كيف أذنتُ لها بدالك ـ فقالت له ياولدي

## هي التي اشارت على بذالك \*

(b) و يعجبني من الا نكليز خلال ـ منها انه ليس عندهم فضول و تكليف علي الدخيل فيهم - بل و لاعلي من هو منهم -فلا يزورونه في غير وقت الزيارة ولايستعيرون منه ولايتمر ضون لها ياتيه فلورأوه مثلاً مضطجعا على قارعة الطريق كم يسألوا لاى سبب تفعل ذالك - بل ربها حسبوا أن اهل بلاده جبليما يفط جمون مثله و أن في ذالك مصلحة لهم -

واذازارک احدهم ورأي عندک مثلا امرأة او نساء لم يهمه ان يسألک عن سبب زيارتهن مها لا بد منه في بلادنا \*

- 2. Write out any one of the above extracts with diacritical marks very carefully, i.e., (اعراب) \*
- 3. Explain the underlined phrases, as far as you can, in question 1.
  - 4. Translate the following into English:-

اتاني ان هند آحل صخر دعت در کاو بشرت الهنودا

فان تفخر بحهزة حدين والي معتسبا شهيدا

فانا قلم قتلله الملوم بله والواليله المالية والواليله المالية المالية المالية المالية المالية المالية المالية ا

و قتلنسا سراة النساس طرا والعبيدا والعبيدا

و شيبة قد قتلنا يوم ذاكم على اثوابه علقها جسيها

The state of the s

فبروع من جهنم شرودار

المسيمة المن معني المعيد المسيدات

وما سيان من هو في جحيب يكون شرابه فيها صديدا ومن هو في الجنان يدر فيها عليه الرزق مفتبطا ههيدا

Write out the allusions referred to in question 4. (a) Analyse the following:

تنام عينك والبظلوم منتبه يدعو عليك وعين الدلم تنم (b) Write out singulars of the plurals and vice versa of

the following: سيد \_ چارية \_ يد \_ عجوز - امرأة \_ نسآء \_ غلام -براري - فلوات - امهات - فقراء - آسباب \*

ARABIC.—SECOND PAPER. 1. Translate the following into English:

خرج شخص بصرة دراهم الى السوق ليشتري حمارا -فاستقبله رجل في الطريق و قال له الي اين قال آلي السوق لاشتري حمارا قال قل أن شآء الله تعالى - فقال ليس هذا موضح ان شآء الله - الدراهم في جيبي - والتجار في السوق - فلما وصل الي السوق ضرب علي جيبه لص (Thief) فاخذالصرة (money bag) - فلما رجع أنّي دارة استقبله ذالك الرجل -

فقال له من اين - قال من ألسوق انشآء الله - و سوقت دراهبي أن شآء الله - ولم اشتر العمار أن شآء الله وها اذا معلس أن شاء الله - و عليك اللعنة أن شآء الله \*

روی آن ملکا من البلوک بنی قصرا - و قال انظروا من عاب منه شيأ فاصلحوه و اعطوه ـ در همين - فاتاه رجل فقال - أن في هذا القصر عيبين - قال و ما هما - قال يموت الماك و يخرب القصر - قال صدقت - ثم اقبل علي نفسه و ترك الدينا 6

يقال أن عمر بن عبدالعزيز كان ينظر ليلا في قصص الرعية في ضوء السراج \_ فجآء غَانم له فحدثه في معني سبب كان يتعلق ببيته - فقال له عهر - اطفأ السراج ثم حد ثني لان هذا الدهن من بيت مال المسلمين - ولا يجوز استعما آه الا في اشغال الهدلميين الله

1)

سرق رجل صرع من الدراهم و مضي حتى اتى الي المسجد فدخلُ يَصَلَّى - فَقُواً آلا مام - و مَا تلكُّ بيِّهينكُّ يَّا موسي \_ و كان اسم الاعرابي موسي - فقال لاشك انكسامر - ثم رسي الصرة وخرم هار با (fled away) \*

- 72. Translate the following into Arabic, giving your marks very carefully, to the Arabic words you write: --
- (1) I saw three men, four women, and six boys working in a field.

(2) My examination time is very near.

(3) We worship God five times in twenty-four hours.(4) We are good friends.

- (5) I love him for his virtue.
- (6) She walks out every morning.
- (7) Have they ever visited Mecca !

(8) I am here.

- (9) What a fine horseman you are?
- (10) How many men are there in the house?

(11) He said so and so.

(12) Paradise is at the feet of mothers.

(13) I brought fourteen oranges نارنج for three dirhams.

(14) I must finish my work before sunset.(15) Bakar is the most learned of all his fellow citizens.

(16) Zaid's eldest brother was killed in a battle in the year one thousand three hundred and fifty-four A. H.

(17) I do not worship what you worship.

(18) Do you not know that God sees us?

(19) Our God is just.

(20) He created the world in which we live.

(21) He gave us eyes to see, hands to work, and feet to walk.

(22) In India winter is more agreeable than summer and so in most parts of Arabia.

## PERSIAN.—FIRST PAPER.

1. Translate the following into English:-

· (a) سالے نزاعے میان پیادگان حجاج افترادہ بود وداعي فر أن سفر هم پياده بود أنصاف در سر و روے هم افتاديم و داد فسوق وجدال داديم - كجاوه نشيني را ديدم كه بأ عديل خويش ميكفت يا للمجب بيادة عام عوصة شطرنم را بسرمي برد فرزين ميشود يعني به ازان ميشود كه بود و پیادگان حاج بادیه را بسر بردند وبتر شدند \*

(b) میفوماید-خرده بین بزرگ زیان است - مردمان بے سایہ را زندہ نه شہرید ۔ اگر خواهی که بیرنج تونگر باشی پسند کار باش - هم او فرساید - سرگ بہتر از نیاز بههسران خویش - وبگرسنگی مردن به که بنان فرومایگان سیر شدن - هر اندیشے که بتورسد بر سست پیمانان استوار معاش وبر استواران سستي منها \*

(c) چون حقیقت یندهاے پدرم هنوز بواقعی ظاهر فكشتم واز بعض تقصيرات وغلط بيني ها وارادة فأشايسته که سرضي درگاه خالق و پسند خاطر خلائق نبود سرزده خود بخود شرمند و شرمسار بودند - وبا آنکه در روز جلوس تقصیرات همه را عفو نهود با خود قرار داد بودم که باز خواست امور گزشته نشود بنا بو تو همی در خاطر از یشان قرار گرفته بود امیرالامرا را حافظ و نگهبان خود میدا نستم «

2. Write briefly in Persian what you know of the author

of the extract (c) in question 1.

3. Translate the following into English and explain the allusions referred to:—

(0) دو پیکسر خسط بندگی داده بسود بخد مت کهر بستد استان بون بعدولت جهانعدار با هوش و راے خدا بند بدود وخرد آزساے نبودے سرش پاے بند غرور سليمان گروان سير نباشد بهور (b) این کهنه رباط را که عالم نام است آرام گه ابلق صبیم و شمام است بزميست كه واماندة صد جمشيد است قصریست که تکیه گاه صدبهرام است (c) چیزیکه رفت رفت مکن یاداو دگر زيرا. كه تاز عكردن غم كار عقل نيست تا تقد روزگار ترا کم زیان شود بگزر ازان که سود درادبار عقل نیست نہ نہ عقال عقل بیفگی زیاے دل

4. Give the force of 5 in the 2nd line of question 3 part (c), and state with examples in what other senses it can be used.

كاغبار غم كم است كه ادبار عقل نيست

5. Explain the following in English:-

عصاے کلیم اند بسیار خوار پس انگه نهایند خود را نـزار

نه پرهیزگارو نه دانشور اند

ههیر بس که دنیا بدین میخرند

عباے بالا کا نہ در تن کنند

به دخل حبش جامةً زن كنند

زسنت نه بینی در ایشان آثر

مگر خواب پیشین و نان سحر

وقت آنست که پدر ود کنی زندار را

7. Analyse according to Persian Grammar:-

گراني که دشهنت گويد مرنج و گرنيستي گو برو باد سنم

8. Name the two kinds of on and explain with examples how they differ in forming the plurals of nouns to which they are affixed.

## PERSIAN.—SECOND PAPER.

1. Translation the following passages into English:—

(الف) اسشب بد خوابیدم - بر خواستم - چراغ را روشن

کردم - سشعول کتابت شدم - بعد از ساعتی دو بازه خوابیدم

- صبح کسالت سانع شد بیرون روم - و قعاً شب برای

آسائیش است - جهیع حیوان ونبات از زحمت روز آسوده

شوند - قوای ابدان استقراریا بد و سترصد زحمات روز

دیگر میشود - قیصر روم در روز نامه ایام سلطنت خود می نویسد که روزی بعادت معتاد صبح از خواب بیدار شدم کرمی اسات و نرمی بالش مانح ازبر خواستن من شد - خود بخود گفتم که بر خیز مگر تو برای استراحت دربستر خلق شده که بیشتر از آنکه حفظ صحت را در خور است می خوابی .

(باً) هزار از قافله متعاقب هم به هدایت یکنفر بدرقه روی بر مقصد می رفتند- جباعتی از اهالی قافله را سودای تقدم بر سرافتاده حبیعی ازاهل قافله را غافل یافته میگوینه اگر غرض از طی این طریق وصول بهقصد است از طریقهٔ که اقرب طرق باشد مسبوقم - اگر قابح می باشد قبل از همه شمارا بعنزل میرسانم - اهل قافله که از طی مسافت خسته شستند ازهم متفرق شد دنبال آنهارا میگیرند و بقافله سالاری آنها قدم درببراهه می گزارند ودر عقب بدرقه اولی نمیماند مگر جمتے قلیلے که بسر منزل نجات میرسد ودیگر نمیماند میرسد ودیگر قوافل متفرق زهم در صحراے قفر قدم میزنند راه پیدا کنند یا نکنند یا نکنند یا

2. Translate the following into Persian:—

(a) After some months that vessel reached an unknown island and east anchor there. The sailors disembarked and were invited by the sovereign of the island to lunch with him. But when they sat down at the royal table, they saw that, it is impossible to eat as much as even one morsel in comfort, because the King's palace is full of mice and rats, which are so daring that they snatch the morsels from the guests' hands. Upon this one of the sailors brought the cat. It busied herself in the chase, after which not a single mouse dared to show its snout.

(b) If we possess not the power of self-government we shall be the prey of every loose inclination that chances to arise. Pampered by continual indulgence, all our passions will become mutinous and headstrong. Desire, not reason, will be the ruling principle of

our conduct.

## SANSKRIT.—FIRST PAPER.

- 1. Translate into English the following passages:
- (a) उपकारिणि विस्तब्धे शुद्धमतौ यः समाचरति पापम्। तं जनमसत्यसन्धं मगवति बसुधे क्यं वहसि॥
- (b) अत्र देशे महत्याऽनाष्ट्रध्या दुर्भिन्नं संजातस्। दुर्भिन-त्वाज्जनो बुभुन्नापीहिताः कोऽपि बिल्नमात्रमपिन प्रयच्छित। अपरं गृहे गृहे बुभुन्तितजनैर्विहङ्गानां बन्धनाय पाशाः प्रगुणीकृताः सन्ति। श्रष्टमप्यायुश्शेषतया पाशेन बहुउहुरिन् नोऽस्मि॥
- 2. (a) Explain or expound the compounds (i.e., give their विमहशास्य) underlined in the above extracts.
  - (b) What is the प्रकृति and प्रत्यय in उद्घरितः?
- (c) Conjugate the root of বহু সাবাদ and সম্ভাৱনি and the root g in the second preterite (বিত্
- 3. Translate any two of the following passages into English or Hindi.
  - (a) केवलं व्यसनस्याक्तं भेषजं नयपिखतैः। सस्याच्छेदसमारम्मो विषादपरिवर्जनम्॥
    - (b) आपदां कथितः पन्या इन्द्रियागामसंयमः। तज्जयः सम्पदां मार्गा येनेष्टं तेन गम्यताम्॥
    - (०) लुब्धमर्थेन गृह्णीयात् क्रुद्धमञ्जलिकर्मणा । मूर्वं खन्दानुवृत्तेन याथातथ्येन पण्डितम् ॥
    - (d) भी भीः तपस्तिन् धम्मीपदेशक आवपार्तिवादी वर्तते। तहुर्पशासद्वारेशास्माकं निर्णयं देहि। यो हितवादी स ते मह्यद्वति॥

4. (a) Parse the words underlined in the extracts under

question III.

(b) State the rules of सन्धि पन्थाइन्द्रियाणाम्, तज्ञयः। आवयोविवादोवन्तेते and भस्य इति. How do you account for the loss of विसर्ग after स in the phrase सत्ते while the visarga after स in the passage सोऽपि तं भन्नियत्वा तस्य परोक्षेऽन्यानिप भक्षयति is changed into द?

(c) Conjugate the root बन्धू and यम् in the Present.

- (d) Decline the base স্থান, in the nominative and accusative, ক্লীৰুস্ in the nominative, and হুন in the accusative.
- 5. Turn the following passages into Sanskrit prose using words different from the text and avoiding compound words as far as you can.

तां सत्यनामां दृढतीरणार्गलाम्

गृहैर्विचित्रेहपणोभितां णिवाम् ।

पुरीमयोध्यां नृषद्वसङ्कृलाम्

श्रणास वे शक्कसमो महीपति: ॥

नारुपसन्निचयः कञ्चिद्ासीत्तस्मिन् पुरोत्तमे ।

कुटुम्बी यो खिसिहार्थोऽगवशाधनधान्यवान् ॥

श्रपि सन्दत्वसापनो नप्टो वापीप्टद्र्यनात ।

प्रायेण प्राणिनां भूयो दु:खावेगोऽधिको भवेत् ॥

#### SANSKRIT.—SECOND PAPER.

1. Translate into English the following passages:

(a) इन्दुं विषं च द्वाविष शिवः स्वीतरोति । किंत्विन्दुं शिरोधारणपूर्वेकं प्रशंसति विषं च स्वक्षरि नियच्छति । एवं प्राच्चो नरः क्रस्य चिक्ररस्य गुणं दोषनुभाविष गृह्णाति । किन्तु

गुणं ग्रीवान्दोलनपूर्वकं श्लाघते दीषं तु स्वकगठे नियम्य तनामनात्रमपि विलोपयति॥

- (b) पुरा किल पुरुदवा नाम राजा बमूव। स उर्वशी दैत्यह्लान्मुमाच। ततः चित्ररणी राजानमेत्याह-' सहत्वलु मघोनः प्रियमनुष्ठितं भवता । स भवन्तं द्रष्टुमिच्छति ' ततो राजा 'सखे नायं मनावसरः शतकतुं द्रष्टुम्' इत्युक्ता न ययी ॥
  - (c) हा राम हा रसण हा जगदेकवीर हा नाथ हा रघुपते किंसुपेच से मास्। इत्यं विदेहतनयास्युहुरालपन्ती-माद्वाय राज्ञसपतिनेभसा जगाम॥
  - (d) न सा समा यत्र न सन्ति वृद्धाः वद्धा न ते ये न वद्नि धर्मस्। धर्मः स नी यत्र न-सत्यसस्ति सत्यं न तद्यञ्चलगस्युपति ॥
  - (e) सम वचस्त्रस्य हृदये हुहं पदं लेखे ॥
- (f) पदं हि सर्वत्र गुगीनिंधीयते ॥
- (g) शैत्यं हि यत्सा प्रकृतिर्जलस्य ॥
- (h) न धर्मवृद्धेषु वयः समीह्यते ॥
- Translate into Sanskrit:— (a) He obtianed a fruit of his desires.
  - (b) Men commit misdeeds, though gods see them.
- (c) I cannot bear to see even poor men disrespectfully treated.
- (d) Good books are dearer to clever students, than fine
- (e) Friends will swarm round a man by hundreds but

3. Compose three short sentences using in (a) the First Person—Plural—Present Tense (जद) from the root स्था; in (b) the Dative—Singular form of the word अस्मद; and in (c) the Second Person—Dual—First Preterite (उद्घ) from of the root হয়।

#### HISTORY.

1. Explain the following terms:—

Domesday Book, Crusades, Presbyterians, Parliament.

2. Give in their chronological order the names of the Angevin kings and the dates of their accession. Why are they so called?

3. Write coneise notices of the following, and give dates:—
The Roman Conquest, The Discovery of America, The Restoration, The Revolution.

4. State what you know of the Union of England with

Scotland. Give dates.

5. Give some account of the English colonies in America in the time of George II. How were they founded and when were they lost to England?

6. When and where was Gautama Buddha born, and when and where did he die? What were the doctrines which he taught?

7. Name the victorious and the defeated sides in each of the following battles, with dates:—Fatchpur Sikri, Jhelum, Swally, Kurdla, Talikot, Porto Novo.

8. Write a short history of Sher Shah and an estimate of his

administration.

9. What were the provisions of the Regulating Act and Pitt's

India Bill respectively?

10. Who were the Amirs of Sindh, and when do we first hear of them? Relate the circumstances attendant upon the annexation of their country.

#### GEOGRAPHY.

N.B.—Candidates are advised not to omit Question 6.

- 1. (a) Which of nature's great forces help to form soil?
- (b) Explain the nature of tides, monsoons and climate.
- (c) Your text-book states that the snow-line on the north side of the Himalayas is about 3,000 feet higher than it is on the south side: what is the cause of this?

2. What is meant by the term "the communications of a country?" Show how the progress of a country is affected by its communications. Give examples.

3. What are the main natural divisions of South America? In what striking respect is its relief different from that of North

America and Africa?

4. (a) What countries of the world are inhabited by the following people:—Berbers, Magyars, Eskimos, Maories, Hottentots and Singhalese?

(b) Explain the following, giving in each case one good

example.

An Absolute Monarchy.

ii. A Limited Monarchry.

iil. A Republic.

(a) In what parts of India are the following product principally found:-

raw cotton, raw jute, tea, rice, wheat, opium, salt and coal?

- (b) Of late years the resources of India have increased considerably; this means an increase of revenue. On what does the Government spend this revenue?
  - Draw a map of England and Wales taking care to insert:

The principle ports.
 The chief towns of the cotton and woollen districts.

(3) The important mountains.

(a) Give a brief account of the Transvaal Colony.

(b) Name the chief rivers of Africa together with their sources and the seas into which they empty themselves.

8. What do you know of :--

The Great Carrier Reef. Kiel, Lhasa, Victoria Nyanza, St. Gothard, Sirocco, Madagascar, Manchuria, Yemen, Polders, Tokyo and Saskatchewan?

# EOMETRICAL DRAWING.

#### Time allowed—2 hours.

Note—Scales and figure to be neatly inked in; all construction lines to be left in pencil.

1.—Draw a scale to measure distances of from 1 foot to 50 feet, and to show inches by the diagonal method. Draw a line and set off on it from the scale a distance of 42 feet 7 inches. Representative fraction  $\pi^{1}_{\sigma}$ 

2.—From a point P outside a circle of 11-inch radius draw

two tangents containing an angle of 30°.

3.—Mark three points not in a straight line. Find a

point equidistant from each of them.

4.—The centres of two circles, radii \(\frac{1}{4}\)-inch and \(\frac{1}{2}\)-inch respectively, are \(\frac{1}{2}\)-inches apart. Find a point K in the circumference of the larger circle 2 inches from the centre of the other. Describe a circle to pass through K and to touch and enclose both circles.

5.—Draw a circle of 12-inch radius. In it place an

octagon and about it a nonagon.

6.—Draw a straight line 21-inches long, and describe a quadrant of a circle touching the line at one extremity.

#### ELEMENTARY PHYSICS AND CHEMISTRY.

1. Explain clearly the difference between the mass and weight of a body. Can the mass or weight of a given body ever change? Describe the different kinds of balance you know, explaining the principle of working in each case.

2. If a boy whose mass is 60 lb sits on one side of a balanced see-saw at a distance of 8 feet from the log upon which it rests, how far from the log must a boy whose mass is 120 lbs. sit in order

to keep the see-saw level?

3. Define Density. Describe in detail how you would deter-

mine accurately the density of a liquid like mercury.

A solid weighs 150 grammes in air and 120 grammes in water. Find out its (1) volume and (2) density.

- 4. Describe some simple experiments to shew the pressure of the air in various' directions and indicate how this pressure can be measured.
- 5. If the column of mercury (density 13.6) stands 30 inches in the barometer, calculate the height at which glycerine (density 1.26) will stand.
- 6. When salt is put into water, it disappears; in what different ways can you show that the salt is not really destroyed? Describe fully what happens when copper is put into nitric acid and the liquid evaporated.

Explain clearly in what respects the above two cases differ from and agree with one another.

7. What are crystals and how are they generally made? Describe how you would make crystals of alum, salt, and sulphur, and also the form and colour of the crystals. What happens when these crystals are heated?

8. Describe the general effects observed on heating a body.

9. Heat is applied steadily to a quantity of ice; describe in detail the successive changes you notice. Is there any difference in the behaviour of ice and sulphur in this respect?

#### BOOK-KEEPING.

1. Classify accounts, and give a few examples falling under your classification.

2. What is meant by opening an Account? What is

a Debtor Balance?

3. Why is a Profit and Loss account necessary?

4. What is the difference between a Promissory Note and a Draft? How are they used in the discharge of liabilities?

5. State clearly the difference between a Bill Receivable

and a Bill Payable.

- 6. Journalise and Post the following. Balance and close the Ledger.
  - Oct. 1. Cash on hand 410. In Bank 3,000. Goods on hand 5,000: Bills Receivable on hand 2,340. Due to Johnson 3,250, due to Jackson 1,500.

3. Sold goods to Johnson 1,200 and received P/N

for the amount.

5. B. R. for 900 paid at Bank.

- , 7. Bot goods from Jackson 500 and endoresd to him B R. for 1,000.
  - 10. Sold goods to Bennett 1,300 and drew on him @ 2 M. D. in favour of Johnson for the amount.
  - 12. Bot goods from Kay 470 and endorsed to him B. R. 440, the balance being discount.

, 15. Paid sundries 50.

" 18. Sold goods for a cheque 800.

Oct. 22. Discounted Johnson's P/N receiving Cash 1,170.

25. Sold goods to Kay for 1,100.

28. Benson's acceptance for 1,000 remitted by Kay in part payment.

" 30. Rent paid by cheque 200.

Allow Int. on Capital @ 6 %.

Value goods on hand @ 1850.

#### POLITICAL ECONOMY.

- 1. What are the Economic advantages of Foreign Trade? Show that the Home Country and the Foreign Country both benefit by an exchange of Commodities.
  - 2. What is rent? Mention some of the causes of variations in rents.
  - 3. Discuss the effect of a rise in prices on :-
    - (a) Producers, (b) Producers, (c) Non-Productions.
- 4. Explain Value. Illustrate your answer by a consideration of the relative values of a loaf of bread, a hat, and a diamond ring.
- 5. Exhibit the fallacy underlying "The Standard of Comfort" Theory with regard to the wages of the employed.
- 6. Under what circumstances might there be a high rate of interest on borrowed capital, even when the risk is not very great?

Can an increased demand for capital be accompanied by a lowering of the rate of interest?

7. Briefly describe the four chief functions of Rankers.

# ENTRANCE AND SCHOOL-FINAL EXAMINATIONS, 1907. ENGLISH.—FIRST PAPER.

(Write the answers to the different sections in separate unswer-books.)

#### Ā.

- 1. In the following passages explain the portions italicised:—
- (a) There is a courage that breaks out in bravado, the exuberance of high spirits, delighting in defying peril for its own sake, not indeed producing deeds which deserve to be called golden, but which, from their heedless grace, their desperation, and absence of all base motives—except perhaps vanity—have an undeniable charm about them, even when we doubt the right of exposing a life in mere galety of heart.

(b) Long, long was the line of chained Gauls of every tribe, before the four white horses appeared, all abreast drawing the gilded car, in which stood a slight form in a purple robe, with the bald head and narrow temples encircled with a wreath of bay, the thin cheeks tinted with vermilion, the eager aquiline face and narrow lips gravely composed to Roman dignity, and the quick eye searching out what impression the display was making on the people. Over his head a slave held a golden crown, but whispered, "Remember that thou too art a man." And in following that old custom, how little did the victor know that, bay-crowned like himself, there followed close behind, in one of the chariots of the officers, the man whose dagger-thrust would, two years later, be answered by his dying word of reproach?

(c) Thou'rt gone—the abyss of heaven

Hath swallow'd up thy form—yet on my heart

Deeply hath sunk the lesson thou hast given,

And shall not soon depart.

He, who from zone to zone

Guides through the boundless sky thy certain flight,

In the long way that I must tread alone,

Will lead my steps aright.

- (d) E'en such is man, whose borrow'd light
  Is straight call'd in and paid to-night
  The wind blows out, the bubble dies;
  The Spring entomb'd in Autumn lies;
  The dew dries up, the star is shot,
  The flight is past:—and man forgot.
- 2. Write short accounts of the following:—Regulus;
  Sir Thomas More's daughter.
  (Each account not to exceed a page of the answer-book).

В

- 3. Explain clearly each of the following:-
  - (a) An exile from home, splendour dazzles in vain.
    Oh! Give me my lowly thatch'd cottage again?
  - (b) Thanks, gentle swain, for all my woes, And thanks for this effectual close,

And cure of every ill!

More eruelty could none express;

And I, if you had shown me less,

Had been your prisoner still.

- (c) "Good friend," said Hal, and sighed the while,
  "Farewell! and happy be;
  But say no more if thou'dst be true,
  That no one envies thee.
  Thy mealy cap is worth my crown,—
  Thy mill, my kingdom's fee;
  Such men as thou are England's boast,
  O Miller of the Dee!"
- (d) "Every man for himself," is the most fatal of all policies, even were self-preservation the primary object.
  - 4. Relate the "Golden Deed" in the poem "Casabianca." (Your answer not to exceed two pages).

C.

1. Explain in your own words the meaning of the second stanza below:—

Stern Danghter of the voice of God!
O Duty! if that name thou love,
Who art a light to guide, a rod.
To check the erring, and reprove;
Thou who art victory and law
When empty terrors overawe;
From vain temptations dost set free,
And calm'st the weary strife of frail humanity!
There are who ask not if thine eye

There are who ask not if thine eye
Be on them; who in love and truth.
Where no misgiving is, rely
Upon the genial sense of youth:
Glad hearts! without reproach or blot,
Who do thy work, and know it not:
Long may the kindly impulse last!
But thou, if they should totter, teach them to stand fast,

2. Explain the italicised parts in the following passage:

The mythic element cannot be eliminated out of history. Men who play leading parts on the world's stage gather about them the admiration of friends and the animosity of disappointed rivals or political enemies. The atmosphere becomes charged with legends of what they have said or done-some inventions, some distortions of facts, but rarely or never accurate. Their outward acts, being public, cannot be absolutely misstated; their motives, being known only to themselves, are an open field for imagination; and as the disposition to believe evil rather than good, the portraits drawn may vary indefinitely, according to the sympathies of the describer but are seldom too favourable. The more distinguished a man is the more he is talked about. Stories are current about him in his own life-time, guaranteed apparently by the highest authorities; related, insisted upon; time, place, and circumstance accurately given—most of them mere malicious lies; yet, if written down, to reappear in memoirs a hundred years hence, they are likely to pass for authentic, or at least probable.

# ENGLISH.—SECOND PAPER.

(Write the answer to the different sections in separate answer-books.)

#### D.

- 1. Write short grammatical notes on the italicised words and phrases in the following sentences:—
  - (a) Who do you think I am?
  - (b) Whom do you think me to be?
  - (c) Either you or I am wrong.
  - (d) Whether is the lark or the thrush the sweeter singer.
  - (e) He has been engaged in this office for the last six months.
  - (f) Three month's salary was paid.
  - (g) Johnson's "Lives of the Poets" is being reprinted.
  - (h) That is one of the best books that have ever been written.

(i) Rama and not you is to blame.

(j) Spensor as well as Shakespeare was a great Elizabethan poet.

2. Parse the words underlined in the following sentence:-

(1) To learn to take interest in what is evil is always mischievous.

- (2) Till the young and ardent learn absolutely to look upon danger as an occasion for evincing the highest qualities.
- (3) Therefore it is that we are struck by hearing of the exposure of life to the atmost peril.

(4) Daring for the sake of plunder has been found in

every robber.

- (5) I have done that which it was my duty to do.
- (6) E'en heroes of immortal sire And mortal mother born expire.
- (7) Polynices had been wandering through Greece seeking aid to recover his rights.
- 3. Parse the words underlined in the following sentences:—
  (1) It was a saying on the coast, that it was worth while

to be wrecked.

- (2) The while our Ahmad lies asleep.
- (3) He watches for us while we sleep.
- (4) Yet she was full of the warmest sympathy.
- (5) He knew full well what the result would be.

And analyse in tabular form :-

He knew full well what the result would be.

E.

4. Construct sentences using :-

(a) charm (1) as a noun, (2) as a verb.

- (b) like (1) as an adjective, (2) as a proposition, (3) as a verb.
- (c) as (1) as a conjunction, (2) as a relative pronoun, (3) as an adverb,

- (d) trifle (1) as a noun, (2) as a verb.
- (e) that (1) as an adjective, (2) as a conjunction, (3) as a relative pronoun, (4) as a demonstrative pronoun.
  - (f) before (1) as a preposition, (2) as a conjuction.
  - 5. (1) Form verbs from:
    - (a) the following nouns: cloth, glass, captive, author, force, dew.
    - (b) the following adjectives: bright, equal, able, calm.
    - (2) Form adjectives form :-
      - (a) the following nouns: pride, heat, wit, health, peace, gold, passion.
      - (b) the following verbs: act, please, hate.
  - 6. Analyse in tabular form:—

And when half-drowned sailors were brought ashore, she remained to give care and directions for their treatment, or took them to her own home, where there were so welcomed that it was a saying on the coast that it was worth while to be wrecked to be received by Miss Gurney.

F

7. Rewrite the following passage, in prose order, changing the direct form of speech into the indirect form:—

Exceeding peace had made Ben Adhem bold, And to the Presence in the room he said,

"What writest thou"?—The vision raised its head,

And with a look made of all sweet accord

Answered, "The names of those who love the Lord."

"And is mine one"? said Abou. "Nay, not so, Replied the angel. Abou spoke more low,

But cheerly still, and said "I pray thee then,

Write me as one that loves his fellow-men."

- 8. (1) Parse but in the following sentences:—
  - (a) Whence all but he had fled,
  - (b) And but the booming shots replied.
  - (c) And shouted but once more aloud.
- (d) But the noblest thing which perished there was that young faithful heart.

- (e) Unshrinking obedience, heeding but the one matter in hand, is the rule.
  - (f) No rest but death for horse or man.
  - (g) It is plain that you are but young.
- (2) Explain the meanings of the following words, showing the force of the suffixes used:—

faithful, kingdom, lifeless, lifelike, healthy, manly, childish, peaceable, hundsome, healtong, browlen, sparkle.

# THIRD PAPER.

#### ENGLISH COMPOSITION.

"The heights by great men reached and kept Were not attained by sudden flight." . .

#### URDU.

(N.B.—Write the answers to the different sections in separate answer-books.)

Translate into English:-

G.

کسی جنگل میں ایک ندی سے تھوڑے دور پر دو سپاھی یکجا بیٹے تھے ۔ اُنھوں نے دیکھا کہ جنگل سے بھیڑئے کے تیں بہ ایک لڑکے کے ساتھہ نکلے اور ندی میں پانی پینے گئے۔ جب وے پانی پیکر لوئے تب سپاھیوں نے اونپر دھاوا کیا۔ وھیں پاس شی اونکی ماند تھی اوسیکے طرب وہ چارو بھگے۔ سپاھیوں نے اونکا پیچھا کیا۔ بھیڑئے کے بچے تو نکل گئے پر لڑکا ماند تک نہ پہونچسکا۔ بیچ ھی میں ایک سپاھی نے اوسکی پچھلی تانگ پکڑ کر اوسے پیچھے کھینچ لیا۔ اوسنے بڑے غصہ میں آکر سپاھیوں پر چوت کیا اور اونکو کئی جگہ پر کات کھایا۔ بڑی مشکل سے اونھوں نے اوسکو کئی جگہ پر کات کھایا۔ بڑی مشکل سے اونھوں نے اوسکو کہیطرے گوشت کے اور کچھہ دنوں تک کسیطرے گوشت کے اور کچھہ بھی اوسے کھلا نہ سکے۔ اُس

ارکے کو کوئی جہہ برس پہلے کوئی بھیریا اوتھا لیگیا تھا۔

جب اوسکی ماں نے ارکے کے پکر جانیکی خبر پائی تب وہ

وِهاں گُذِّي اور اوسنے اوسے پہچان لیا ۔ وہ اوسکو اپنے گھر لے آئي ۔ گو ماں نے بہت كوشش كي ليكن ولا الله منهم سے أيك لفظ بھی نہ بولسکا - تھوڑے دنوں میں اوسنے روتی کھانا سيكها ير رات كو جنگل ميں چلا جايا كرتا تها - اوسكو كنتا گوشت بنسبت پکے هوئے کے زیادہ پسند تھا۔ یہانتک که اگر کوئی گائے یا بیل مرجاتا اور اوسکا چہری کھینچلینے کے بعد اوسكا بدن برا رهجاتا تو وه فوراً وهان يهو نجتا اور كتونكي طرح اوسے كهاتا صحراے افریقه اس زمانه میں محفی رتیلا هے ـ سیکروں كوس نه كهيں ياني كا نام هے اور نه كوئي درخت هـ - آجنك کوئی آدمی اس صحراء کے بار نہیں جاسکا تھا۔ مگر حال میں ایک فوانسیسی مسافر نے اوسکو پار کرلیا ۔ وہ لکھتا هے که کسی زمانه میں یہ صحواء خوب هي هرا بهرا تها اور اچهي طرح بسا هوا تها اوسے وهاں بهت سي قبرين ملين-پتهروں پر جانوروں اور پرندوں اور آدمیوں وغیرہ کی کھدی هوئی تصویریں ملیں ۔ آتا پیسنے کے چکیوں کے پتھر سلے۔ اور بہتیرے قسم کے هتھیار اور اوزار ملے۔ اس قرانسیسی مسافر نے ان باتوں سے ثابت کیا ھے کہ اس صحراء میں کسی زمانہ میں کروروں آدمی بستے تھے اور کھیتی

باري وغيرہ كركے خوشي سے آپني زندگي بسر كرتے تھے۔ مگر جيوں جيون پاني كم برستا گيا تيوں تيوں آدسي اُس ملک كو چهورتے گئے ـ اور اب ايسا زمانہ هے كه وهاں آدسي كيا

گھاس بھوس تک کا هونا نامیکن هے

#### HINDI.

(N.B.—Write the answers to the different sections in answer-book)

Translate into English :-

G.

किसी जंगल में एक नदी से घोड़े हूर पर दो सिपाही एक जगह बैठे थे। जन्होंने देखा कि जंगत से भेडिये के तीन बच्चे एक लड़के के साथ निकले और नदी में पानी पीने गये। जब वे पानी पीकर लौटे तब किपाहियों ने उन पर धावा किया। वहीं पास ही उनकी सांद घी। उसी के तर्ण वे चारों भागे। मिपाहियों ने उनका पीछा किया। भेड़ियों के बच्चे तो निकल गये पर लड़का मांद तक न पहुंच सका। बीच ही में एक सिपाही ने उसकी पिछली टाने पकड़ कर उसे पीछे खींच लिया। उनने बड़े की घर्ने शाकर सिपाहियों पर चीट किया श्रीर उनकी कई जगह पर काट खाया। बड़ी सुशिकल से उन्हों ने उसे किसी तरह पकड़ा। श्रीर उसे धर लाये। कुछ दिनों तक सिवा कचे नांन के जीर कुछ भी 'उसे न खिला नके, इस लड़के के। के।ई ६ बरम पतिले भेड़िया उठा ले गया था। जब उसकी गाने लड़के के पकड़ जाने की खबर पाई। तब बह बहां गई शीर उपने उमे पहचान लिया। वह उत्तरी अपने घर लाई। यदापि नाने बहुत कोशिश की पर बह लड़का अपने मुंह से एक अब्द भी न बोल सका। योड़े दिनों में उमने रोटी जाना नी जा। पर रात के। जंगल में चला जाया करता था। उने जना मांम पने की अपेचा अधिक पसन्द था। यहां तक कि यदि केर्छ गाय या बैल मर जाता श्रीर उसका चनड़ा सींच लिये जाने

पर लाश पड़ी रह जाती तो वह वहां फीरन पहुंचता श्रीर कुत्तों की तरह उसे खाने लगता॥

त्राफ्रिका की मस्युनि इस समय बालकामय है। सैकड़ों कास न कहीं पानी को नाम है न बनस्पति का। आजतक के। ई. प्रादनी इस नरुखल के पार नहीं जा उका था। पर हाल में एक फ्रांसीयी मुसाफिर ने उसकी पार कर लिया। वह लिखता है कि किसी समय आफ्रिका का यह सहारा खूब ही हरा भरा था अगेर अच्छी तरह बसा हुआ था। उसे वहां बहुत सी क़बरें मिली। पत्यरों पर पश्कीं पितयों स्रीर आदिमियों स्रादि की खुदी हुई तसबीरें मिलीं। स्राटा पीसने की चक्कियों के प्रत्यर मिले और बहुत प्रकार के अस्त्र श्रक्ष श्रीर श्रीज़ार मिले। इस फ्रांसीसी सुसाफिर ने इन बातों से साबित किया है कि इस महस्यल में किसी समय करोड़ों श्रादमी बसते थे। और कृषि श्रादि करके श्रानन्द से अपना जीवन निर्वाह करते चे। पर जैसे २ पानी कन बरसता गया मन्ष्य इस प्रदेश को छोडते गये। और खब ऐसा समय है कि वहां आदमी क्या पास फूस तक का होना असम्भव है॥

# MATHEMATICS.—FIRST PAPER. ARITHMETIC AND ALGEBRA.

- 1. Is 823 a prime number? Why is it unnecessary to try factors above 23 in answering the question?
- 2. Show that to 3 Figures  $\pi = \frac{3.5}{7}$  and that to 5 figures  $=\frac{3.5}{1.13}$  where  $\pi = 3.14159265$ .

  3. Find the quotient of 6893.7825 by 72.6328 correct to
- four figures.
  - 4. Find to three decimal places the square root of 5.
  - 5. Show that

6. Simplify

$$\frac{a^2}{(a-b)(a-c)} \times \frac{b^2}{(b-c)(b-a)} \times \frac{c^2}{(c-a)(c-b)}$$

7. Resolve into factors  $x^6 - y^6$ .

8. Solve 
$$\frac{x-1}{2} - \frac{x-3}{4} + \frac{x-5}{6} = 4$$
.

9. Solve 
$$\frac{x+y}{8} + \frac{x-y}{6} = 5 \cdot \frac{x+y}{4} - \frac{x-y}{3} = 10$$
.

10. A can do half as much work as B; B can do half as much as C, and together they can complete a piece of work in 42 days: in what time could each alone complete the work?

## MATHEMATICS.—SECOND PAPER.

## GEOMETRY AND MENSURATION.

1. (a) Prove that the interior angles of a Polygon of n sides are together equal to 2(n-2) right angles.

(b) Can any regular Polygon have each of its interior.

angles (i) 156°, (ii) 158°, (iii) 160°?

2. (a) In a right angled triangle the square on the hypotenuse is equal to the sum of the squares on the sides containing the right angle.

(b) Construct a square whose area is three times a

given square.

3. (a) Prove the theorem "If a straight line is divided equally and also unequally, the rectangle contained by the unequal parts, and the square on the line between the points of section are together equal to the square on half the line": and

(b) Write down the corresponding algebraical identity.

4. ABC is a triangle obtuse angled at C, and AD is drawn perpendicular to BC produced. If AB=9, BC=5, CA=6, find CD.

5. (a) Prove that the straight line drawn at right angles to the diameter of a circle at one of its extremities is a tangent to the circle.

(b) Describe a circle which shall pass through a given point and touch a given straight line at a given point.

6. (a) Prove that the angle in a semi-circle is a right

angle.

(b) Through a fixed point P a straight line is drawn to meet a circle in R and S. Find the locus of the middle point of RS.

7. Prove that through three points not in the same

straight line, one, and only one, circle can be drawn.

8. The sides of a triangle are 132, 125 and 37 feet respectively: find the perpendicular distance of its longest side from the opposite vertex.

9. A circular running track is 6 yards wide, and 130 yards in inside diameter. Find the area of the track and the length of a lap at a distance of one yard from the inner edge,  $(\pi = 2\frac{2}{r^2})$ .

10. Draw a plan and find the area of a field from the

following notes.

## ARABIC.—FIRST PAPER.

1. Translate the following into English:

فلها سهع الخليفة من فعم هذه الابيات قال والله طيبوالله مليم لله درك يا فعم مما افصم لسافك و ما
اوضم بيانك - ولم يزالوا في فرح وسرور الى نصف الليل ثم قالت اخت الخليفة اسمع يا اميرالمؤمنين افي رأيت مكاية في الكتب عن بعض ارباب المراتب - قال الخليفة و ما
قلك الحكاية ? فقالت له اخته اسمع يا اميرالمؤمنين افه كان بهدينة الكوفة صبى يسمى فعمة بن الربيع و كان له

جارية يحبها و تحبه و كانت قد تربت معه في فراش واحد فله فله الله واحد فله الله الله واحد فله الله الله واحد فله الله و الله الزمان بافاته و حكم عليه الله الزمان بافاته و حكم عليه الرسم و اخفوها تحيلت عليها الوشاة و حتي خرجت من دارة و اخفوها سرقة من مكانه ك

2. Explain the usages of the following expressions:—

(a) سيما و طاعة، (b) لله درك،

(c) على رغم العدى: (d) سبحان الله:

(c) تسبّع بألمعيني خير من أن تراه<sup>ا</sup>

(f) مناسك العبم و الثبع،

3. Translate the following into English:

فقالت العهامية من ليك دالسلامية نعم الرفيق الرفق بتس القرين الضرق الهكسر الانسي خلسة المحبب بئس الخلة الجود سنو صالح البخل عيب فاضم شر البقال الكذب خير الخسلال الانب الصَّهت اوفيٰ جنَّه. الجسون خيسر سنسه المجبب داء قاتل العقل قاض عادل الراي نعم القاضي الصبر سيدف ماض الجهل شين للفتي الشيب موت اذاتي

4. Re-write the following with discritical marks carefully set, and mention the allusions referred to:--

ابالهسب تبست يداك ابالهسب

خدات نبي الله قاطع رحهه فكنت كهت باع السلامة بالعطب

لغوت ابي جهدل فاصبحت تدابسها المدنب للمدنب

فاصبح ذاك الامر عبارا بهيساسه

عليك حجيج البيت في موسم العرب

و لو لان عن بغض الاعادي معلمة

و لي تشهلوه أو يصرع حواله،

علي المرتضى 5. Write a short biography of

6. Translate the following into English, explaining the grammatical pun referred to:

جاء نعوي على باب نعوي فدن بابه - فقال مَن انت ? فقال الزادُر - احدد - فقال المدد الزادُر - احدد - فقال المدد الاينصرت - فاجاب اذا كان نكرة ينصرت ا

7. For each of the following words mention another Arabic word of opposite signification, with their English equivalents:—

فوق - ایل - یهین - بحر - شناع - مدر - موت - رفق - بیع - معرفة - شیب and سهاع ا

8. Analyse the following:

الهي انت ذو فضل ومن واني ذو خطايا فاعف عني

9. Write the peculiarities (خاصیات ایراب) of any three of the following:—

افعال - تفعيل - تفاعّل - تفعل and مفاعلة

# ARABIC.—SECOND PAPER.

Translate the following into English: (a) يا ابن آدم اخرج حبالدنيا من قلبک - فانه لا

يجتبع حبالدنيا و حبالله في قلب واحد،

(أ) ايام الدهو ثلاثة - يدوم مضي لا يعود اليك دويوم انت فيه لا يدوم عليك - ويوم مستقبل لا تدري ما جاله و لا تعرف من اهله'

(c) سمَّل سقواط لها لا تتكلم? اجاب خلق لنا اذنان وفم واحده - لكيما يسمع الانسان اكثر سها يكتلم،

(g) قال احمق لابسنه اي يوم صلينا الجمعة في المسجد - فقال لقد نسيت ولكن اظنه يوم الثلاثاء ،

(h) الم تعلم الى الله على كل شيئن قدير? لن نصبر على طعام واحده - قال ابراهيم رب ارني كيف تحي الموتى ؟ الله يرزق من يشاء بغير حساب - يآ بني لأتشرك بالله النالشرك اظلم عظيم - كيف تكفرون بالله وكنتم امواتا فاحياكم - ثم يجيتكم ثم يحييكم ثم اليه ترجعون '

2. Translate the following into Arabic, and give diacritical marks اعراب very carefully to your translation:—

(1) I passed by Zaid.

(2) They bought the horse.

(3) By God I will certainly do so.

(4) Ahmad is in the city.

(5) I travelled from Allahabad to Bombay.

(6) He (God) will pardon your sins.

(7) There is nothing like Him (i.e., God).

- (8) I did not see him since Friday.
- (9) By God, I will never drink wine.
- (10) Hamid is absent but Mohammad is present.
- (11) Twenty-two men are going to Mecca.
- (12) How many dirhams have you in your purse?
- (13) The poor man became rich.
- (14) She is going to buy a horse for me.
- (15) Boys and girls are going to school.
- (16) Twenty, thirty, forty, fifty, sixty, seventy, eighty, and ninety.
- (17) One, two, three, four, five, six, seven, eight, nine, and ten.
- (18) Work hard for your examination.
- (19) The youth became an old man.
- (20) Sit as long as Mahmud is sitting.
- (21) I will go if you (dual) go.
- (22) We will not come if you (all) do not come.
- (23) We have had enough rain.
- (24) Two men and three women were present.
- (25) Every thing is to die out except Allah alone.

## PERSIAN-FIRST PAPER.

1. Translate the following into English:

(1) اما صاحب دنیا که بعین عنایت حق ملحوظ است و بحلال از حرام محفوظ- سن ههان انکار که تقریر این سخن فکفتم و بیان و برهان نیاوردم انصات از تو توقع دارم - که هرگز دیدی دست دغائے برکتف بسته یا بینوائے بزندان در نشسته یا پردهٔ معصومی دریده یا کفی از معصم بریده الا بعلت درویشی - شیر مردان را بحکم ضرورت در نقبها گرفته اند و کعبها سفته - اغلت تهیدستان دامن عصهت بهیدسیت آلایند و گرسنگان ربایند،

(2) و گذاهگار فروتن به از نیکو کار سرکش - نادان است کسے که از کہتری بههتری رسیده باشد ویرا بههان چشم کهتری بیند - و بیشرمی ازان بتر نبود کسے را که چیزے نداند و بخود بندد ـ و فریفته کسے است که یافته

به نیافته دهد - و فرومایه کسے است که مردمان را برو خواهشے اُفته و اورا توانائي بر آوردن آن باشد و نکندا

(3) هواے آگری گرم و خشک است ـ سخن اطبا ان است که روح را بتحلیل می برد و ضعف می آرد و به اکثر طبائع ناسازگار است - مگر بلخهی و سوداوی مزاجان را که از ضرر آن ایمن اند - و ازین جهت است حیوانات که این مزاج و طبیعت دارند مثل فیل و گاؤمیش رغیران درین آب و هوا خوب می شوند '

(4) اما تقدیم خدمت فقرا و اهل الله براے خیر و برکت دنیوی و عافیت خود و حصول دعاے مزید نعبت و دولت است نه براے نمود منت – گفتند اگر فیالحقیقت از تصدیم ارادهٔ باطن نیت خیر است نصف غلات از حصهٔ رعایا بگیرند بلکه به مظلومان محنت کش زیاده ازان بگذارند ا

2. Write out from memory a رباعي from وعور خيام or a وعور خيام from ابن يعين -

3. Mention a few letters and particles that are used redundantly in Persian. Give examples.

4. Translate the following into English, and explain the allusions therein:—

(۱) زخاک آورد رنگ و بنوی وطعام تهاشاکه دیدهٔ و مغنز و کام عسل دادت از نعال و من از هوا رطب دادت از نخل و نخل از نوا همه نخال بندان بغایند دست زحیرت که نخلے چنین کس نه بست

خور و ماه و پاروین بسراے تو اند قنادیا سقف ساراے تو اند

(2) بے سکہ کبول تو نقب عبل دغل بے خاتے رضاے تو سعی امل هبا

جائے کہ تیخ قہر برانر مہابتے ويوان كـنـد بسيـل عرم جنت سبا

(a) Analyse the last couplet according to Persian Gram-5. Explain in Persian as clearly as you can:

بكرفت همهو لاله دلم در هواے سرو اے مرغ بخت کے شوی آخر تو رام ما دریاے احضر فلک و گشتی هلال هستند غوق نعبت حاجي قوام ما

6. Give the rules for the use of JIs and JIs in Persian. Define غننوي and name some books that could be so called.

8. Translate into English and explain in Persian: مجاهد اگر نفس اساره کشت كليسه در فعم دارد بهشت

چه حاصل که صد خرقه بر تن باری خدا رس شوي چون زخود بگيدري فزوني چـو خواهي کم خويش گيـر ره این است اگر سالکی پیش گیر

PERSIAN.—SECOND PAPER.

Translate into English:— در خواب دیدم در "خیابان ناصریه" پیر سرد ریش سفید- و ژولیده مو - و پریشان احوال - با اعتدال قامت-و تناسب اعضا - که لناسهاے فاخری در برداشت - نهایاں شد - و جوانے دست او را گرفته است - پیر در نهایت هراسانی با جوان صحبت کنان راه میرفت - و هر لعظه

باطرات خود نگرال بود - ناگاه از یکطرت شورش عظیمی برپا شد - گروهے از بازاریان و سردمان بیسر و پا و ارافل اطرات پیرسرد را گرفته هریک چیزے ازو بغارت میر بودند برخے بوجودش نیز صدمه رسانیده بسس و صورتش زخم میزدند - و بعضی دست و پا و اندامش را پاره پاره کرده - گروهے جواهرات جاسه اش را بغارت میگرفتند - تا اینکه او را از همه خیزها برهنه ساخته نیمه جان بگوشه انداختند - بیچاره با کمال ضعف و ناتوانی بآواز حزیل انداختند - بیچاره با کمال ضعف و ناتوانی بآواز حزیل فریاد میکرد - که ای فرزندان ناخلف و ای نمکشید - بیوفا گناه می چیست که بدین خواری در خاکم میکشید - بیوفا گناه می چیست که بدین خواری در خاکم میکشید - در کیفر کدامین خطا بدین عقوبت سختم گرفتار میدارید و از شدت صدمات وارده ضعف بوجودش مستوای شده گریه کنان از پای در افتاد،

Translate into Persian :-

After Tahmuris' (قرون) death his nephew Jamshid ascended the throne. They say that wine was invented in his time, and it is well known that he built Istakhar of Fars (Persepolis) which is also called Jamshid's Throne. The historians of Persia will have it that he divided the nation into four grades, first the religious authorities, second the scribes, third the soldiers, fourth the artisans and farmers and traders.

It is recorded that the fixing of the solar years also took place in Jamshid's time. At the beginning of his reign the world was populous and the people were well-off; but at last prosperity having rendered him proud he laid claim to divinity and commanded so that, having made in his likeness, they ordered men to consider him the God of the earth and worship those images. This conduct became the cause of disgust among the people.

#### SANSKRIT.—FIRST PAPER.

## 1: Translate into English :-

एवं संप्रधार्यं पादपादवतीर्यं विलद्वारमाशित्य चित्रग्री-वच्छलेन हिरगयनं समाहृतवान् एन्ह्ये हि भो हिरगयक एहि ।

तच्छव्दं म्रत्वा हिरणयको व्यचिन्तयत् किमन्योऽपि कश्चित कपोतो बन्धनश्रेषस्तिष्ठति येन मां व्याहरति। आह च भी: को भवान । स आह अहं लघुपतनको नाम वायसः। तच्छत्वा विशेषाद्नत्तीनी हिर्गयक आह भी द्रतं गम्यता-मस्मात् स्थानात्॥

(a) State the धातु and पत्यय in समाहूतवान and लीन:

(b) Conjugate the root in the third preterite (lun).

उपकारगृहोतेन शत्रणा शत्रमृद्धरेत्। पादल्यां करस्येन कराटकेनेव कराटकम्॥ चलत्येकेन पादेन तिष्ठत्येकेन बुद्धिमान्। नाससी दय परं रुषानं पूर्वमायतनं त्यजेत्॥ कारुएयं संविभागञ्च यस्य भृत्येषु सर्वदा। संभवेत स महीपालक्षेत्रोक्यस्यापि रच्यो ॥

(a) Translate the above extracts into English or Hindi. (b) Parse the underlined words.

Write out in prose order:

सर्वे तस्याद्रता लोका यस्यैते त्रय आद्रताः। श्रनाद्रतास्त् यस्यैते सर्वास्तस्या फला: क्रिया ॥ न चायं न परो लोकस्तम्य चैव परन्तप।

श्रमानितां नित्यमेव यस्यैते गुरवस्त्रयः ॥

(a) State the rules of Sandhi in the underlined words.

(b) Conjugate the root मन् and आ + ह in the present tense.

(c) Decline इत्म and सर्व in the accussative case in all numbers.

4. Write out the purport in English or Hindi:

द्वाव्यायाविह प्रोक्ती विमुक्ती शत्रदर्शने। हस्तयोञ्चालनादेको द्वितीयः पादवेगजः॥

# कृत्रिमं नाग्रमभ्येति वैरं प्राक् कृत्रिमेर्गुगैः। प्राणदानं विना वैरं सहजं याति न चयम्॥

- (a) Decline & in all cases.
- (b) State the प्रकृति and प्रत्यय of कृतिन and सहजम्.
- 5. तेन सत्याभिसन्धेन त्रिवर्यमनुतिष्ठता। पालिता सा पुरी श्रेष्ठा यथेन्द्रेगामरावती॥

(a) Re-write the above extract, changing the passive into the active construction.

(b) Decline तत् and अनुतिष्ठत् in the nominative case,

neuter, gender.

(c) Give the meaning of the words अभिसन्धा and ग्रमरावती.

#### SANSKRIT.—SECOND PAPER.

- 1. Translate into English:-
  - (a) उद्यम्: साहतं धैर्घ्यं बुद्धि: शक्ति: पराक्रमः । षडेते यत्र विद्यन्ते तत्र देवः सहायकृत् ॥
  - (b) चमा शस्त्रं करे यस्य दुर्जनः किं करिप्यति। अतृशे पतितो वन्हिः स्वयमेव प्रशाम्यति॥
    - (c) नन्दन्त्युदित न्नादित्ये नन्दन्त्यस्तिमतेऽहिन । न्नाव्युध्यन्ते मनुष्या जीवितदायम्॥
    - (d) आस्रं छित्त्वा सुठारेश निम्बं परिचरेतु कः। यश्चैनं पयसा सिञ्जे नैवास्य मधुरो भवेत्।।
- (e) मन्त्री प्रत्युवाच । राजन् भवदन्वेपणाय अमन्ने-कस्मिन्नरण्ये पिपासाकुलः श्रीतलं नदीसिललं पिवनु-ज्वलाकारं रत्नमद्राजम् । तदादाय गत्वा कञ्चनमध्वानं किमपि देवमन्दिरं प्रविष्टी दीनं ब्राह्मणमेकमवलोक्य द्यान्वितो तस्ते प्रायच्छम् । सेऽवोचदद्विजन्मा । अनु-गृहीतोऽस्मि श्रीमतामनेन रत्नदानेन ॥

(f) द्शरथी मृगयां कुर्वजेकदा संध्यासमये सरयूतीरे

स्थितः जलेन पूर्व्यमानस्य घटस्य शब्दं अत्वा गजनादशङ्क्रया शब्द पातिना शरेगा मुनिपुत्रं निजधान तेन च बोधितानव-यस्तत्पित्रोः समीपं तं निनाय । श्रय श्रव्यमुद्धरति नृपे स

शिश्रमृतः । ततः सदारेश वृद्धतापसेन पुत्रशोबाद्हमिव त्वमपि मृत्यमवाश्यसीति शप्तः।

2. Translate the following into Sanskrit:-(a) The wife of a rich man fell sick: and when she felt

that her end drew nigh she called her only daughter to her bedside and said, 'Always be a good girl, and I will watch over you from heaven.

(b) Forgiveness is an ornament to men as modesty is to women.

(c) Can light and darkness exist together?

(d) The story is told of some boys who, playing near a pond, saw many frogs in the water and began to throw stones at them. Not a few of the frogs were badly hurt and some were even killed. At last, one of the forgs cried out: "Boys, this may be sport to you; but it is death to us."

## HISTORY.

Answers to Parts I and II to be written in separate answer books marked I and II respectively.

- 1. What are the claims of William the conqueror to the English throne? How did he prosecute them; and what measures did he take to secure his throne?
- 2. Give some account of the Hundred Years' War, with dates of principal battles and treaties.
  - 3. Write short accounts of :-Simon de Montfort, Mary Queen of Scots, Oliver Crom-
- well, Nelson. 4. Briefly describe the circumstances which led to
  - (1) The revolution. (2) The act of Union with Scotland.

5. State either what you know of the Peace of Paris (1763) and The Treaty of Versailles; or

Give some account of the effect of the Napoleonic Wars

upon England.

#### II.

- 6. Give a short account of either The Invasion of Alexander or The reign of Asoka.
- 7. Give a list of the principal invasions of India from the North-West between 1000 A.D. and 1800 A.D.
- 8. Who were the following :—
  Muhammad Tughlak, Bairam khan, Albuquerque, Ranjit Singh,
  Hyder Ali.
- 9. Give an account of the policy of Dupleix and account for its failure.
- 10. What do you know of the administrations of Lord William Bentinck and Lord Ripon.

#### GEOGRAPHY.

Answers to Parts I and II to be written in separate answer books marked I and II respectively.

#### T.

- 1. "Rivers show us on a large scale what moving water can do to bring about changes of the earth's surface." Explain this statement and illustrate your answer by reference to India.
- 2. Explain why the rajufall of Bengal is greater than that of Egypt.
- 3. What are the following:—Delta, Inland Sea, Tableland, Water-parting, Strait. Give one example of each.
- 4. Name the countries of which the following are the Capitals:—St. Petersburg, Tokyo, Teheran, Rome, Cairo, Copenhagen.
- 5. Draw a map of either (i) India, showing the principal mountain ranges, and the following rivers and towns:—Ganges, Indus, Narbudda, Kaveri Patna, Karachi, Darjeeling, Surat, Trichinopoly, Delhi; or (ii) England and Wales, naming the boundaries and showing the following rivers and towns:—Thames, Severn, Trent, Tyne, Portsmouth, Manchester, Nottingham, Cardiff, Oxford and York.

- 6. (a) What are the two principal sea-routes between India and England and through what seas do they pass?
  - (b) Through what countries would a railway have to pass from Karachi to Constantinople?
- 7. (a) Name the four chief rivers of Africa, stating where they rise and into what seas they flow.

(b) Name from West to East the countries of Africa bordering on the Mediterranean Sea,

- 8. What are the principal products and industries of Bengal, the United Provinces and Burma?
  - 9. Compare China Proper and Arabia, with regard to their
    - (1) Physical features
    - (2) Populations (3) Trade.

10. Where are the following and for what are they noted:—Antwerp, Zanzibar, Genoa, Hong-Kong, Vienna?

# GEOMETRICAL DRAWING, 1907.

Time allowed—2 hours.

NOTE.—Scales and figures to be neatly inked in; all construction lines to be left in pencil.

- 1. The distance between two places is 35 miles, and measures on a map 44 inches. Construct a diagonal scale to suit the map showing 50 miles. Draw a line and on it set off from your scale a distance of 37 miles 3 furlongs.—Show all calculations, figure the scale properly, and note above it the representative fraction.
- 2. Construct a trapezium ABCD. Side AB 1 inch long; diagonal AC makes 30° with AB, and is 1¾ inches long; diagonal BD is 1½ inches long, and makes 60° with AB. Bisect the side BC in a point E, and on BE construct a regular pentagon outside the trapezium.
- 3. Inscribe in an octagon of 3 inch side half as many circles as the figure has sides, each circle to touch two sides and two circles.
- 4. Inscribe within a circle of 1 inch radius five equalsemicircles having adjacent diameters.

- 5. Two points A and B are 3-inch apart. A point O the centre of a circle of 3-inch radius is I inch, and 3-inch from A and B respectively. Describe a circle which shall pass through the points A and B, and touch the given circle.
- 6. On a straight line 1.25 inches long, describe a segment of a circle containing an angle of 75°. Inscribe a square in this segment.

## ELEMENTARY PHYSICS AND CHEMISTRY.

- 1. Define the following terms:—Transparent, Brittle, Dense, Malleable, Pliable, Elastic and Porous.
- 2. What is meant by the mass of a body? What volume of water at 4°C, has a mass of a kilogram? If 100 grams just balances 3½oz, how many lbs has a mass equal to the mass of a kilogram?
- 3. A merchant uses a pair of false scales, the beam of which is supported at a point ten inches from one end and eight inches from the other end; if he puts 5 lbs. weight in the pan at the shorter end of the beam, will a customer get more or less than 5 lbs. sugar if weighed in the other pan. By what method of weighing will the customer gain? Give reasons.
- 4. Define density. Describe the methods of finding the densities of liquids by means of a U tube and a density bottle respectively.

If a column of a liquid in a U tube 100 inches high balances a column of water 103 inches high what is the relative density of the liquid?

- 5. A solid weighs 100 grams in air and its volume is 20 cubic centimetres; find its specific gravity.
- 6. Describe an experiment showing that a barometer measures the pressure of the atmosphere.

If a mercury borometer stands 30 inches high at sea level, will the height of the mercury be more or less when it is taken:
(a) to the top of a high hill; (b) to the bottom of a deep mine? How will the height of the mercury in a barometer be affected by blowing down the open end of the short tube? Give reasons for your answers.

- 7. What is a thermometer? Compare a Fahrenheit with a Centigrade thermometer. If the readings on the Fahrenheit thermometer are 32°, 52°, and 212° respectively, what are the corresponding readings on a Centigrade thermometer?
- 8. (a) Show by experiments that our hands cannot be depended upon to tell the temperature of a body. (b) Why is a small space left between each two rails in a railway line? (c) Will a cubic foot of ice occupy more or less space when it is all melted into water? (a) Why are iron tyres first heated before being placed on carriage wheels?
- 9. Distinguish between a solution and a fluid holding matter in suspension. Give examples. What is a saturated solution? Give examples of substances undergoing (a) physical changes, (b) ehemical changes, when dissolved in liquids.
- 10. What are crystals and how are they generally formed?

  Define Water of Crystallisation, Efflorescent Crystals and Deliquescent Substances.

What are the shapes of the following crystals—Sulphur. Alum, Salt?

#### BOOK-KEEPING.

- 1. Explain the two fundamental principle upon which the seience of Book-keeping rests.
- 2. State very clearly what you understand by "Capital" as the term is used in Book-keeping.
- 3. How does the Ledger depend upon the Journal, and in what way does "Double Entry" occur?
- what way does "Double Entry" occur?

  4. Give a few rules for taking out a "Tial Balanee".
  - 5. Distinguish between "Assets and "Liabilities."
- 6. Journalise and post the following Balance and close the

1902

Oct. 1—Cash in hand, Rs. 337. 5—Paid J. Cummings, Rs. 60.

Received from T. Jones, Rs. 17.

7—Paid for House Expenses, Rs. 24
Received from F. Smith, Rs. 14
8—Paid Sunday Expenses, Rs. 15

, 8—Paid Sundry Expenses, Rs. 15.

" 9-Balance at Bank, Rs. 4,724.

,, 10-Drew cheque for Sims, Rs. 81.

" 11—Paid in, Rs. 362.

- " 12-W. Wright paid to my account, Rs. 1,347.
- " 14—Drew cheque for salaries, Rs. 120.

", 16—Purchased property for Rs. 1,000.

" 20—Paid J. Miller for alterations, etc., Rs. 150.

,, 24—Sold half the property to E. Barnes for Rs. 600. (Value remainder at Rs. 550.)

" 30-Paid Interest, Rs. 40. Trade Expenses, Rs. 27.

#### POLITICAL ECONOMY.

- 1. Give short definitions of "Wealth;" "Interest;" "Capital."
- 2. Show in your own words how rent arises, and mention the chief causes which may modify the amount of rent actually paid by a tenant.
- 3. Distinguish between "real" and "nominal" wages and show by an example the importance of the distinction.
- 4. What is meant by "convertible paper money"? What are its advantagess?
  - 5. Explain the objects of Trades Unions.
- 6. What is "Foreign Trade"? Why should any country import from other countries things which it could produce itself?
- 7. State the problems of taxation. What reasons are there for diminishing the Salt Tax as much as is possible?